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## **Premiums offered**

**IN THE SESSION 1823—1824.**

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*A LIST of the OFFICERS of the SOCIETY.*

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DUKE OF SUSSEX, K. G. &c. &c.

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**CHAIRMEN OF COMMITTEES.**

|  |                               |
|--|-------------------------------|
| <i>Accounts.</i>                         | <i>Manufactures.</i>          |
| WILLIAM LUMLEY, Esq.                     | JAMES PEARSALL, Esq.          |
| EMERSON DOWSON, Esq.                     | JOHN SMITH, Esq.              |
| <i>Correspondence and Papers.</i>        | <i>Mechanics.</i>             |
| DANIEL MOORE, Esq. <i>[F. R. S.</i>      | THOMAS GILL, Esq.             |
| <i>F. S. A. &amp; F. L. S.</i>           | BRYAN DONKIN, Esq.            |
| GEORGE MOORE, Esq. <i>F. S. A. &amp;</i> | <i>Chemistry.</i>             |
| <i>F. L. S.</i>                          | HENRY COXWELL, Esq.           |
| <i>Polite Arts.</i>                      | GEORGE DEACON MIDGLEY, Esq.   |
| RICHARD HORSMAN SOLLY, Esq.              | <i>Colonies and Trade.</i>    |
| <i>F. R. S. F. S. A. &amp; F. H. S.</i>  | WILLIAM EVANS, Esq.           |
| WILLIAM BROCKEDON, Esq.                  | JOHN MACARTHUR, Esq.          |
| <i>Agriculture.</i>                      | <i>Miscellaneous Matters.</i> |
| THOMAS HARRISON ANDREW, Esq.             | WILLIAM KIRKBY, Esq.          |
| CHARLES WAISTELL, Esq.                   | CAPT. T. M. BAGNOLD.          |

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*Assistant Sec.*..... MR. THOMAS WOODFALL.  
*Housekeeper* ..... MISS A. B. COCKINGS.  
*Collector* ..... MR. HENRY HARRISON.

## ADVERTISEMENT TO THE PUBLIC.

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THE chief object of the SOCIETY is, to promote the Arts, Manufactures, and Commerce of this Kingdom, by giving honorary or pecuniary Rewards, as may be best adapted to the case, for the communication to the SOCIETY, and through the SOCIETY to the Public, of all such useful Inventions, Discoveries, and Improvements (whether specified in these premiums or not) as tend to that purpose; in pursuance of this plan, the SOCIETY have already expended upwards of a HUNDRED THOUSAND POUNDS, derived from voluntary subscriptions and legacies.

The meetings of the SOCIETY are held every Wednesday, at seven o'clock in the evening, from the first Wednesday in November to the second Wednesday in June. The Committees meet on other evenings in the week during the session, for the purpose of taking into consideration the subjects referred to them by the SOCIETY. A person desirous of becoming a Member of the SOCIETY, may be proposed according to the following form, which must be signed by three Members of the SOCIETY, and delivered in to the Secretary:

A. B. [*Trade, Profession or Designation of the Candidate*] proposed as a Member of the Society for the Encouragement of Arts, Manufactures, and Commerce by

[*Date*]

C. D.

E. F.

G. H.

Peers of the Realm, or Lords of Parliament are, on their being proposed, immediately balloted for: the names of other persons proposed to become Members are read by the Secretary to the SOCIETY, and are then inserted in lists which are hung up in the SOCIETY's room; they are balloted for at the second following ordinary meeting. In both cases, if two-thirds of the Members then voting ballot in their favour, they are deemed Perpetual Members upon payment of not less than Twenty Guineas in one sum, or Subscribing Members upon payment of any sum not less than Two Guineas annually.

Ladies are eligible as Members of the SOCIETY, and alone are entitled to vote by proxy at elections, through the medium of any gentleman who is a Member, on his producing a written authority for the same.

Members are entitled to vote and assist in all the business of the SOCIETY and of the several Committees. They have also the privilege of recommending two persons as visitors at the meetings of the SOCIETY; and, by addressing a note to the housekeeper, of introducing their friends on any week day, except Wednesday, between the hours of ten and two, to examine the various Models, Machines, and Productions, in different branches of Arts, Manufactures, and Commerce, for

which rewards have been bestowed ; also to inspect the magnificent series of Moral and Historical Paintings, executed by the late J. BARRY, Esq. which, with some valuable Busts, Statues, Portraits, &c. decorate the public rooms of the SOCIETY.

Members have the use of the SOCIETY's Library, which is valuable, and annually increasing by the purchase and donation of scientific and useful books, and of engravings. Contributions from Members and others, in augmentation of the Library, and of the collection of Maps and Prints, will be thankfully received, and duly acknowledged in the annual volume of the SOCIETY's Transactions, to a copy of which every Member is entitled.

\* \* To persons inclined to leave a sum of money to this SOCIETY by Will, the following form is offered for that purpose :

ITEM.—*I give and bequeath to A. B. and C. D. the sum of* *upon*  
*condition, and to the intent that they, or one of them, do pay the same to the*  
*Collector for the time being, of a Society in London, who now call themselves*  
*the Society for the Encouragement of Arts, Manufactures, and Commerce ;*  
*which said sum of* *I will and desire may be paid out of my*  
*personal estate, and applied towards carrying on the laudable designs of the*  
*Society.*

The SOCIETY desire it to be clearly understood, that as a Body they are not responsible for any opinion or representation of facts contained in their Volumes. And the Public are requested to guard against impositions, from persons advertising as having Patents for Articles rewarded by the SOCIETY ; they are also cautioned against purchasing articles sold under the pretended sanction of the SOCIETY's name.

The SOCIETY have lately published the 40th *Volume* of their Transactions, which may be had by Members on application to the Housekeeper. Complete SETS of their TRANSACTIONS, or any single Volume, may be purchased at the SOCIETY's house ; where may be had also,

An *Analytical Index* of the first *Twenty-five Volumes* of the Transactions to the Termination of the Session, June, 1807, price 1s.

Do. continued to the end of the 40th volume price 1s.

A List of the Machines and Models in the SOCIETY's Repository, to the year 1813, inclusive, *gratis*.

A Catalogue of Books in the SOCIETY's Library, 1s.

A Description of Mr. Barry's Paintings in the Great Room of the SOCIETY, *gratis*.

All communications are to be made by letter, addressed to ARTHUR AIKIN, Esq. the Secretary, at the SOCIETY OF ARTS, &c. Adelphi, London.

And where articles are sent by Sea for the SOCIETY, the Bills of Lading are to be addressed to the care of WILLIAM VAUGHAN, Esq., 70, Fenchurch-street, London, who has undertaken to receive them for the SOCIETY.

## GENERAL NOTICE TO CANDIDATES.

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THE great object of the SOCIETY in rewarding individuals is, to draw forth and give currency to those inventions and improvements which are likely to benefit the public at large. Candidates are therefore requested to observe, that if the means by which the respective objects are effected require an expense or trouble too great for general purposes, the SOCIETY will not consider themselves bound to give the offered reward; but, though they expressly reserve the power, in all cases, of giving such part only of any premium as the performance shall be adjudged to deserve, or of withholding the whole if there be no merit, yet the Candidates may be assured the SOCIETY will always judge liberally of their several claims.

The SOCIETY by no means restrict their liberality to the subjects for which premiums are specially offered, but will take into consideration, and will reward by a bounty proportioned to its merit, any communication, the subject of which is of a practical nature, and calculated to promote the public good.

All communications are to be made by letter addressed to the Secretary, and are to contain full and particular details, according to the nature of the Subject, as well as accurate descriptions of such drawings and Models as form part of the communication: the Models to be sent CARRIAGE PAID.

In those cases in which certificates are required to be produced in claim of premiums, they should be expressed, as nearly as possible, in the words of the conditions attached to the respective premiums, and be signed by disinterested persons, who have a positive knowledge of the facts stated.

The premiums are designed for the United Kingdom, unless expressly mentioned to the contrary; but no claim will be attended to, unless the previous conditions have been fully complied with.

No person shall receive any premium, bounty, or encouragement, from the SOCIETY, for any matter for which he has obtained any premium or reward from any other SOCIETY, or for which he has obtained, or purposes to obtain a patent; it being a condition stipulated with every candidate, that all articles rewarded by the SOCIETY, shall be freely given up to the public, to be made or manufactured by any person whatever.

All Models, the production of which is attached as a condition to any premium, shall, upon the delivery of such premium, remain the property of the SOCIETY.

Where premiums or bounties are obtained in consequence of specimens produced, the SOCIETY will retain such part of those specimens as they may judge necessary, making a reasonable allowance for the same.

No member of this SOCIETY shall be a Candidate for, or entitled to receive, any premium, bounty, or reward whatsoever, except the honorary medals of the SOCIETY.

No Candidate, not a member, shall be present at any meeting of the SOCIETY or Committees, or be admitted at the SOCIETY's rooms, after having delivered in his claims, until such claims are adjudged, unless summoned by the Committee.

A Candidate for a premium, or a person applying for a bounty, being detected in any attempt to impose on the SOCIETY, shall forfeit such premium or bounty, and be deemed incapable of obtaining any for the future.

The consideration of the Claims for the premiums offered in the present List, will take place during the Session of the SOCIETY commencing on Wednesday, the 5th of November, 1823. The several Candidates and Claimants, to whom the SOCIETY shall adjudge Premiums or Bounties, are to attend on the last Wednesday in May, at eleven o'clock in the forenoon precisely, to receive the same, that day being appointed by the SOCIETY for the Distribution of their Rewards; and before that time no Premium or Bounty will be delivered, except to those who are about to leave the Kingdom.

In cases where the SOCIETY may think fit to admit excuses for not attending in person, Deputies may be substituted to receive the rewards, provided such Deputies are either Members of the SOCIETY, or superior Officers thereof.

## PREMIUMS IN AGRICULTURE.

*N. B.—The Winchester bushel is the measure referred to for grain; and, as the Acres of different districts vary in extent, it is necessary to observe, that the Society mean Statute acres of five and a half yards to the rod or pole, and they request that all communications to them may be made agreeably thereto.*

### 1. IMPROVEMENT OF LAND.

#### *Gaining Land from the Sea.*

1. TO the person who shall have gained the greatest quantity of Land from the Sea, not less than fifty acres, on the coast of Great Britain or Ireland;—*the Gold Medal.*

Certificates of the quantity of Land, and that the experiments were begun after the first of January 1818, to be produced to the Society on or before the first Tuesday in February, 1824.

2. The same premium is extended one year farther, on the same conditions.

#### *Improving Waste Land.*

3. For the most satisfactory account of a method, superior to any hitherto practised, of improving Land lying Waste and uncultivated, in which either of the following soils predominate, viz. clay, gravel, sand, chalk, peat, or bog, verified by experiments on not less than fifty acres of land;—*the Gold Medal.*

4. For the next greatest quantity, not less than thirty acres;—*the Silver Medal.*

It is required, that the Land, before such improvement, be absolutely uncultivated and in a great measure useless, and that in its improved state, it be inclosed and cultivated.

Certificates of the number of acres, of the quality of the Land so improved, with a full account of every operation and expense attending such improvement, the state it is in as to the proportion of grass to arable, and the average value thereof, to be produced to the Society on or before the first Tuesday in February, 1824.

#### *Laying down Light Land to Permanent Grass.*

5. To the person who shall ascertain, by actual experiment, the comparative merit of the following modes of laying down Light Soils to Permanent Grass, with a view to obtain a good sward in

the shortest time, viz. by inoculating or transplanting, as recently practised in the county of Norfolk, either with or without corn, by sowing grass-seeds in the Spring, in the common way, with corn buck-wheat, &c. or by sowing grass-seeds alone in the Autumn;—*the Gold Ceres Medal.*

It is required that every operation, and the expense of each mode, be fully described, with proper certificates of the soil and subsoil in each experiment being respectively of similar qualities, and of their having previously been similarly treated as to cultivation and manure, and of at least one acre having been tried under each system, to be produced to the Society on or before the last Tuesday in February, 1824.

#### *Manures.*

6. For the most satisfactory set of experiments, to ascertain the comparative advantages of the following Manures, used as top-dressings on grass and corn-land, viz. soot, coal-ashes, wood-ashes, lime, gypsum, bones, night-soil, or any other fit article;—*the Gold Medal.*

It is required that the above experiments be made between four of the above-mentioned Manures, and that not less than two acres of land be dressed with each Manure.

7. For similar comparative experiments, on two or more kinds of Manure;—*the Silver Medal.*

An account of the nature of the soil, the quantity, and expense of the manure and crops, with certificates, to be produced on or before the last Tuesday in February, 1824.

### 2. PLANTATIONS.

#### *Forest Trees.*

8. To the person who shall have inclosed and planted, or set, the greatest number of acres (not less than fifty) of land that is incapable of being ploughed,

or otherwise unfit for tillage, with the best sorts of Forest Trees, namely, oak, Spanish chesnut, ash, elm, beech, alder, willow, larch, spruce, or silver fir (with or without screens of Scotch fir) adapted to the soil, and intended for timber trees, between the first of October 1819, and the first of April 1820;—*the Gold Medal.*

9. For the second greatest quantity of land, not less than thirty acres;—*the Silver Medal.*

A particular account of the methods used in making and managing the plantations, the nature of the soil, the probable number of each sort of plants, together with proper certificates that they were in a healthy and thriving state two years at least after making the plantations, to be delivered to the Society on or before the second Tuesday in February, 1824.

*N. B.* With the above Forest Trees, the seeds, cuttings, or plants, of such other trees as are adapted to the soil, and proper for underwood, may or may not be intermixed.

#### *Oaks, not transplanted.*

10. For having set, in the season 1817-18, the greatest quantity of land, not less than fifteen acres, with Acorns, with or without seeds, cuttings, or plants of other trees, at the option of the candidate; and for effectually fencing and preserving the same, in order to raise timber;—*the Gold Medal.*

11. For the second greatest quantity of land, not less than ten acres, set agreeably to the above conditions;—*the Silver Medal.*

Certificates of setting agreeably to the above conditions, and that there are not fewer than three hundred young Oaks, in good condition, on each acre, to be delivered to the Society on or before the first Tuesday in February, 1824.

#### *Larch.*

12. For having planted out, between June, 1820, and June, 1821, the greatest number of Larch Trees, not fewer than fifty thousand, and for having effectually fenced and preserved the same, in order to raise Timber;—*the Gold Medal.*

13. For the next greatest number, not fewer than thirty thousand;—*the Silver Medal.*

Certificates of the number of plants,

that they were in a healthy and thriving state two years at least after they were planted out, with a general account of the methods used in making the plantation, to be delivered to the Society on or before the last Tuesday in February, 1824.

*N. B.* The Larch Trees may be planted either mixed with other trees, or by themselves, as may best suit the convenience of the planter.

#### *Norway Fir.*

14. To the person who shall have imported from Norway the greatest number, not less than two thousand, of Norway Fir Seedlings, and shall have planted the same during the year 1821, placing them at sufficient distances from each other to stand for timber trees;—*the Gold Medal.*

Certificates of the number of plants, that they were in a thriving state two years at least after they were planted out, with a general account of the methods used in making the plantation, to be delivered to the Society, on or before the first Tuesday in February, 1824.

*N. B.* It is recommended to plant seedlings of about three or four years growth, and in a moderately good soil, somewhat sheltered; the wood from the district of Christiana is esteemed the best for carpenters' and joiners' use; and for spars and ufers the trees near to Long Sound are most valued.

#### *Walnut Trees.*

15. For having planted the greatest number of Walnut Trees, not less than two hundred, since June, 1821, and for having effectually fenced and preserved the same, in order to raise timber;—*the Gold Medal.*

16. For the next greatest number, not fewer than one hundred;—*the Silver Medal.*

Certificates of having planted agreeably to the above conditions, and that the plants were in a healthy and thriving state two years at least after making the plantation, and specifying the distance of the plants from each other, to be delivered to the Society on or before the first Tuesday in April, 1824.

#### *Securing Plantations.*

17. To the person who shall give to the Society the most satisfactory ac-



count, founded on experience, of the most effectual and least expensive method of securing young plantations of timber trees, and hedge rows, from hares and rabbits, as well as from sheep and cattle, which at the same time shall be least subject to the depredations of wood-stealers;—*the Gold Ceres Medal, or Thirty Guineas.*

The accounts, and certificates of the efficacy of the method, to be produced to the Society on or before the last Tuesday in March, 1824.

### 3. COMPARATIVE EXPERIMENTS ON RAISING TREES.

#### *Oaks.*

18. To the person who shall have ascertained in the best manner, by actual experiment, continued for five years at least, the comparative merits of the different modes of raising Oaks for timber, from acorns set on land properly dug or tilled, from acorns set by the spade or dibble, without digging or tillage, either on a smooth surface, or among bushes, fern, or other cover; and from young plants previously raised in nurseries, and transplanted: regard being had to the expense, growth, and other respective advantages of the several methods;—*the Gold Medal.*

The accounts and proper certificates that not less than one acre has been cultivated in each mode, to be produced to the Society, on or before the first Tuesday in February, 1824.

#### *Walnuts.*

19. To the person who shall communicate to the Society an improved mode of propagating the superior varieties of Walnuts, either by budding, grafting, or any other mode, except sowing;—*the Gold Medal.*

Certificates that not fewer than fifty trees have been so raised; with a full account of the method practised, to be produced to the Society, on or before the first Tuesday in April, 1824.

### 4. CULTIVATION OF CORN AND OTHER PLANTS.

#### *Wheat.*

20. For the best set of experiments made on not less than twelve acres, four acres being sown broad-cast, four drilled, and four dibbled, in order fully to ascertain which is the most advantageous mode of cultivating wheat;—*the Gold Medal.*

It is required that every operation, and the expense of each mode of culture, be fully described; and that proper certificates of the nature and condition of the land on which the experiments were made, together with an account of the produce of the corn, the weight per bushel, and also of the straw, be produced to the Society on or before the last Tuesday in February, 1824.

#### *Grass Seeds.*

21. To the person who shall raise the greatest quantity of each or any of the following named grass-seeds, viz.—Meadow Fox-tail (*alopecurus pratensis*), Sweet-scented Vernal-grass (*anthoxanthum odoratum*), Timothy-grass (*phleum pratense*), meadow Fescue-grass (*festuca pratensis*), smooth-stalked Meadow-grass (*poa pratensis*), rough-stalked Meadow-grass (*poa trivialis*), rough Cock's-foot (*dactylis glomerata*), perennial Ray grass (*lolium perenne*);—*the Silver Medal.*

It is required that certificates from persons who have viewed them in a proper state to identify that they are one or other of the seeds above mentioned, indicating clearly the particular species, and noticing the quantity produced of such seeds, free from weeds or mixture of other grasses, together with proper samples of the seeds, be produced to the Society on or before the first day of March, 1824.

#### *Seed of the Grass employed in making Fine-Plat.*

22. To the person who shall, in the year 1823, collect the greatest quantity of seed, not less than one pound, from plants raised in Great Britain of a species of *Poa*, a native of Connecticut in the United States, the stems of which are employed there as the material for fine plat as described in the 40th volume of

the Society's Transactions, and seeds of which have been imported and distributed by the Society;—*the Silver Medal, or Twenty Guineas.*

23. For the next greatest quantity not less than half a pound;—*the Silver Ceres Medal, or Ten Guineas.*

Satisfactory certificates, with a sample of the seed and of the grass from which it was produced, to be sent to the Society on or before the first Tuesday in March, 1824.

### Beans.

24. To the person who shall discover and cultivate, on not less than five acres, a species of Horse-beans or Tick-beans which, being sown in the spring, will ripen their seeds before the 21st of August;—*the Silver Medal.*

It is required that a particular account of the bean, the cultivation, and the expense attending it, with proper certificates of the nature and condition of the land on which the experiments were made, together with an account of the produce, the weight per Winchester bushel, and a sample of not less than a peck, be produced to the Society on or before the last Tuesday in February, 1824. It is apprehended that if a Bean should be brought into cultivation with the habits of hotspur or other early peas, it would in a great measure escape the danger arising from the collier insect, or other insects, and allow more time for the farmers to till the land for the subsequent crop of wheat.

### Parsnips.

25. To the person who shall cultivate the greatest quantity of land, not less than five acres, with Parsnips, for the particular purpose of feeding cattle or sheep;—*the Silver Medal.*

Certificates of the quantity of land so cultivated, with a particular account of the nature of the soil and weight of the produce on sixteen perches, and also of the condition of the cattle or sheep fed with the Parsnips, and the advantages resulting from the practice, to be produced to the Society on or before the last Tuesday in February, 1824.

### Potatoes.

26. To the person who shall, in the year 1824, cultivate the greatest quan-

tity of land, not less than fifty acres, with Potatoes of such qualities as shall be fit for the use of the table in the months of April, May, and June, 1825;—*the Gold Medal, or Thirty Guineas.*

Proper certificates, along with other necessary particulars, to be sent to the Society on or before the first Tuesday in Nov. 1825.

### Preventing the rotting of Clover Plants.

27. To the person who shall communicate to the Society, a satisfactory account of some method successfully employed in preventing the failure of Clover Crops, in consequence of the Plants rotting on the ground in the Winter and Spring; which they commonly do in patches, appearing to extend from a center;—*the Gold Ceres Medal.*

Full particulars and satisfactory certificates to be produced to the Society on or before the second Tuesday in March, 1824.

### Hemp.

28. The Society, wishing to encourage the growth of Hemp, in every part of the united empire, offer to the person who shall have sown with Hemp, either broadcast or in drills at least eighteen inches asunder, the greatest quantity of land in any part of the united empire, not less than fifty acres statute measure in the year 1823, and at the proper season shall have caused to be plucked the summer Hemp (or male Hemp bearing no seed), and continue the winter Hemp (or female Hemp bearing seed) on the ground until the seed is ripe;—*the Gold Medal.*

29. For the next greatest quantity, not less than twenty-five acres;—*the Silver Medal.*

Certificates of the number of acres, of the distance of the drills, of the plucking of the Hemp, with a general account of the soil, cultivation, and produce, to be delivered to the Society along with fourteen pounds of the Hemp and two quarts of the seed, on or before the last Tuesday in February, 1824.

*Cultivation of the white Poppy  
(Papaver somniferum) and Ex-  
traction of the Opium.*

30. To the person who shall prepare the greatest quantity of Opium, not less than 250 lbs. from the white Poppy (*Papaver somniferum*), raised by the claimant, in Great Britain or Ireland, in the year 1823 ;—*the Gold Medal.*

31. To the person who shall obtain the next greatest quantity, not less than 120 lbs, raised by the claimant as above, he not having previously obtained the Society's premium ;—*the Gold Ceres Medal, or Thirty Guineas.*

Certificates of the quantity and quality of the produce, with specimens, and a full description of the mode of culture, and of the extraction and preparation of the Opium, to be sent to the Society on or before the first Tuesday in February, 1824.

Persons proposing to claim the above premium are referred to Mr. Young's communications on the subject, published in the 37th and 38th Vols. of the Society's Transactions.

A valuable communication on the same subject is inserted in the 40th Volume.

5. PRESERVATION OF VEGE-  
TABLE PRODUCE.

*Preserving Turnips, Carrots,  
Parsnips, Beets, or Mangel  
Worzel.*

32. To the person who shall discover to the Society the best and cheapest method of preserving these roots perfectly sound, and in every respect fit for supporting and fattening sheep and neat cattle during the months of March, April, and May ;—*the Silver Medal.*

It is required that a full and accurate account of the method employed, and the expense attending the process, together with certificates that the produce of four acres, at the least, has been preserved according to the method described, and applied to the feeding of sheep and neat cattle ; that the whole were drawn out of the ground before the first day of January, in order to clear the greater part of it previous to its being prepared for corn, and

to save the soil from being exhausted by the turnips or other roots, and also of the weight of an average sixteen perches of the crop ; be produced to the Society on or before the last Tuesday in April, 1824.

*Preserving Cabbages.*

33. To the person who shall discover to the Society the best and cheapest method of preserving drum-headed Cabbages perfectly sound, and in every respect fit for supporting and fattening sheep and neat cattle during the months of February, March, and April ;—*the Silver Medal.*

Conditions the same as for preserving turnips, Art. 32.—And the accounts to be produced on or before the last Tuesday in April, 1824.

*Harvesting Corn in Wet Weather.*

34. To the person who shall discover to the Society the best and cheapest method, superior to any hitherto practised, of Harvesting Corn in Wet Weather ;—*the Gold Medal.*

A full account of the method employed, and of the expense attending the process, with not less than two sheaves of the corn, and certificates that at the least the produce of ten acres has been harvested according to the method described, and that the whole is of equal quality with the samples ; to be produced to the Society on or before the first Tuesday in February, 1824.

6. DESTROYING INSECTS AND  
OTHER VERMIN.

*Destroying the Grub of the Cock-  
chafer.*

35. To the person who shall discover to the Society, an effectual method, verified by repeated and satisfactory trials, of destroying the Grub of the Cockchafer, the Wire-worm, or the Slug, or of preventing or checking their destructive ravages on corn, peas, beans, and turnips ;—*the Gold Medal.*

The accounts, with proper certificates, to be produced on or before the first Tuesday in February, 1824.

*Destroying the Fly on Hops.*

36. To the person who shall discover to the Society an easy and efficacious method of destroying the Fly on Hops, superior to any hitherto known;—*the Gold Medal.*

Accounts and certificates of the method having been successfully practised on not less than four acres of Hop ground; to be delivered to the Society on or before the first Tuesday in February, 1824.

*Destroying the Fly on Turnips.*

37. To the person who shall discover to the Society an easy and efficacious method of destroying the Fly on Turnips, or of preventing its injurious effect on the crop;—*the Gold Medal.*

Conditions the same as for the preceding premium.

*Preventing the Blight on Fruit Trees and Culinary Plants.*

38. To the person who shall discover to the Society the most effectual method of preventing the Blight or ravages of Insects, on Fruit trees and Culinary Plants, superior to any hitherto known or practised, and verified by actual and comparative experiments;—*the Gold Medal.*

The accounts, with proper certificates, to be delivered to the Society on or before the last Tuesday in February, 1824.

7. CATTLE AND SHEEP.

*Feeding Cattle.*

39. For the best experiments on Stall feeding Cattle (not fewer than five head of different breeds), to be continued for the space of twelve months, in order to prove the earliest maturity and greatest propensity to fatten, of the most approved breeds of cattle in Great Britain, or Ireland, specifying the nature of the food given, together with the daily consumption of each beast, with its weekly increase in weight, and such other observations as may be deemed of consequence;—*the Gold Medal.*

A full account of the methods employed, and of the expenses attending the same, and certificates of the sundry matters stated, to be produced on or before the second Tuesday in Feb. 1824.

*Protecting Sheep.*

40. To the person who shall communicate to the Society the best and cheapest method of protecting large flocks of sheep, not less than one thousand, from the inclemency of the weather during the winter months, particularly in mountainous districts, where the practice of protecting sheep has not hitherto been adopted;—*the Gold Medal.*

A particular account of the experiments made, with the advantages arising therefrom, together with the expense, and certificates of its utility, to be produced to the Society on or before the first Tuesday in March, 1824.

N. B. It is required that the certificates shall specify the length of time the sheep were so protected, and the manner in which they were maintained during that time; together with the general method of managing them.

*Cachemire Shawl-Goat.*

41. To the person who shall have kept in a healthy state, in any part of the United Kingdom, during the last three years preceding the first of February, 1824, the greatest number of Cachemire Shawl-Goats;—*the Gold Medal.*

Certificates that at least five goats are in good health at the time of making the communication, together with full particulars of the method of treating them, to be produced to the Society on or before the first of March, 1824.

The same premium is extended to the year, 1825.

*Cure of the Rot in Sheep.*

42. To the person who shall discover to the Society the best and most effectual method of curing the Rot in Sheep, verified by repeated and satisfactory experiments;—*the Gold Medal, or Fifty Guineas.*

It is expected that the Candidates furnish accurate accounts of the symptoms and cure of the disease, together with the imputed cause thereof, and the actual or

probable means of prevention, which, with proper certificates, must be delivered to the Society on or before the last Tuesday in February, 1824.

*Preventing the ill-effects of Flies on Sheep.*

43. To the person who shall discover to the Society the most effectual method of protecting sheep from being disturbed and injured by Flies;—*the Silver Medal, or Ten Guineas.*

It is required that the method be ascertained by repeated experiments, and that a certificate of its efficacy be delivered to the Society on or before the first Tuesday in February, 1824.

## 9. AGRICULTURAL MACHINES.

*Irrigation of Land.*

44. To the person who shall discover to the Society the cheapest and most effectual method of raising water in quantities sufficient to be beneficially employed for the purpose of irrigating land, superior to and cheaper than any other method now in use;—*the Gold Medal, or Fifty Guineas.*

A model, on a scale of one inch to a foot, with certificates that a machine at large, on the same construction, has been used, specifying the quantity of water delivered in gallons per hour, and the height to which it is raised, to be produced to the Society on or before the first of March, 1824.

*Paring Plough.*

45. To the person who shall invent

and produce to the Society a Machine or Plough for the purpose of paring land preparatory to burning, superior to any hitherto known or in use for such purpose, and to be worked by not more than one man and two horses;—*the Silver Medal, or Twenty Guineas.*

The machine and certificates that at least ten acres have been pared by it in a proper manner, to be produced to the Society on or before the first of February, 1824.

*Dibbling Machine.*

46. To the person who shall invent a machine, superior to any hitherto known or in use, to answer the purpose of dibbling wheat, by which the holes for receiving the grain may be made at equal distances and proper depths;—*the Silver Medal, or Fifteen Guineas.*

The Machine, with certificates that at least three acres have been dibbled by it, to be produced to the Society on or before the second Tuesday in February, 1824.

*Thrashing Machine.*

47. To the person who shall invent a Machine by which corn of all sorts may be thrashed more expeditiously, effectually, and at a less expense, than by any method now in use, and without injuring the straw more than thrashing by the flail;—*the Gold Medal.*

The Machine, or a Model, with proper certificates that such a Machine has been usefully applied, that at least thirty quarters have been thrashed by it, and of the time employed in the operation, to be produced to the Society on or before the last Tuesday in February, 1824.

## P R E M I U M S

### FOR THE PRACTICAL APPLICATION OF DISCOVERIES AND IMPROVEMENTS IN CHEMISTRY, DYEING, AND MINERALOGY.

*Increasing Steam.*

48. To the person who shall invent

and discover to the Society a method, verified by actual experiment, of increasing the quantity or force of Steam in

Steam Engines, with less fuel than has hitherto been employed, provided that in general the risk of accidents be not increased, and the whole amount of the expenses in using steam engines be considerably lessened;—*the Gold Medal, or Fifty Guineas.*

To be communicated to the Society on or before the last Tuesday in February 1824.

### *Prevention of Smoke.*

49. To the person who shall invent and produce to the Society the best and easiest means, superior to any now before the public, of preventing the emission of dense Smoke, from the chimnies of steam-engines, breweries, and manufactoryes;—*the Gold Medal, or Fifty Guineas.*

Certificates that the means proposed have been found to succeed in practice, to be produced to the Society on or before the first Tuesday in February, 1824.

### *Test for Arsenic.*

50. To the person who shall discover to the Society a test for arsenic in solution, superior to any hitherto known;—*the Gold Medal.*

It is required that any communication in claim of this premium shall include a method of detecting arsenic, not only in its usual form of white arsenic, or arsenious acid, but also in the state of arsenic acid, and of the soluble salts formed by the combination of arsenious and arsenic acids with alkaline substances.

Claims for this premium to be delivered in on or before the last Tuesday in February, 1824.

### *Preventing the Ill-Effects of Smelting Ores.*

51. To the person who shall invent and discover to the Society the most effectual method of preventing the ill-effects arising to vegetation and animal life, from the sulphureous, arsenical, or other noxious fumes disengaged in smelting the ores of Copper, Zinc, Lead, Tin, Iron, &c. in the large way, and, if possible, of converting those pernicious fumes to useful purposes, in a manner superior to any hitherto known, or in use;—*the Gold Medal, or Fifty Guineas.*

It is required that a full account of the process employed, with certificates of its being successfully carried into effect, be produced to the Society on or before the first Tuesday in March, 1824.

### *Fine Bar Iron.*

52. To the person who shall make the greatest quantity of Bar-iron, not less than ten tons, with coke, from coke pigs, equal in quality to the best iron imported from Sweden or Russia, and as fit for being converted into steel;—*the Gold Medal, or Fifty Guineas.*

Samples, not less than one quarter of a hundred weight, with certificates that the whole quantity, is of equal quality, to be produced to the Society on or before the first Tuesday in March, 1824.

### *Refining Copper from the Ore.*

53. To the person who shall discover to the Society a method of separating, purifying, and refining Copper from the Ore, so as to render it fit for those purposes to which fine copper is now applied, and by a process cheaper than and superior to any hitherto known or in use;—*the Gold Medal, or Fifty Guineas.*

Certificates that not less than three tons have been so prepared or refined, and a quantity not less than 14 lbs. of the copper so refined, to be produced to the Society on or before the last Tuesday in February, 1824.

### *Refining Zinc from the Ore.*

54. To the person who shall invent and communicate to the Society a process of refining Zinc from the Ore superior to any hitherto known or in use, and fit for the purpose of making fine brass;—*the Gold Medal, or Fifty Guineas.*

Conditions the same as in the preceding premium.

### *Preparing Brass.*

55. To the person who shall discover a method of making Brass from materials the produce of Great Britain or Ireland, of superior quality to that commonly manufactured in this country, and equal to foreign brass;—*the Gold Vulcan Medal, or Thirty Guineas.*

A full account of the process, and of the ingredients employed, together with their proportions, and certificates that one ton has been so manufactured, and a sample of the brass, not less than 14lbs. to be produced to the Society on or before the last Tuesday in February, 1824.

### *Improved Earthenware Crucibles.*

56. To the person who shall invent and discover to the Society a process for manufacturing earthenware crucibles which shall be capable of enduring higher degrees of heat than those now in use, and shall not be too expensive;—*the Gold Vulcan Medal, or Thirty Guineas.*

A full account of the process, and of the materials employed, with satisfactory certificates of the crucibles having been found to answer in use, and specimens of the crucibles, to be produced to the Society on or before the last Tuesday in March, 1824.

### *Preparation of Sulphuric Acid, from Sulphur, without the Use of any Nitric Salt.*

57. To the person who shall prepare the largest quantity (not less than one ton) of Sulphuric Acid from sulphur, without any nitric salt, of a specific gravity not inferior to the best sulphuric acid of commerce;—*the Gold Medal, or Fifty Guineas.*

Certificates that not less than the above quantity of such an acid has been prepared, together with a sample, and a full account of the process employed, to be produced to the Society on or before the first Tuesday in February, 1824.

### *Purification of Coal Gas.*

58. To the person who shall discover the cheapest method of purifying the inflammable gas procured from coal, superior to any method now in use;—*the Gold Vulcan Medal, or Thirty Guineas.*

A full account of the process, with certificates of its fully answering the intended purpose, to be produced to the Society on or before the second Tuesday in February, 1824.

### *Refining Whale or Seal Oil.*

59. To the person who shall invent and discover to the Society an effectual method of purifying Whale or

Seal Oil from the glutinous matter that incrusts the wicks of lamps, and extinguishes the light, though fully supplied with oil; provided that such purified oil resists congelation in an equal degree with the unpurified;—*the Gold Medal, or Fifty Guineas.*

It is required that the whole of the process be fully and fairly disclosed, in order that satisfactory experiments may be made by the Society to determine the validity of the claim; and certificates that not less than twenty gallons have been purified according to the process delivered in, together with two gallons of the oil in its unpurified state, and two gallons so refined, to be produced to the Society on or before the second Tuesday in February, 1824.

### *Oil for Chronometers.*

60. To the person who shall invent and discover to the Society a method, verified by actual experiment, of rendering oil more fit than any now in use for chronometers and watches, particularly in being less liable to become thick or rancid;—*the Gold Medal, or Fifty Guineas.*

A full account of the experiments and of the process or processes employed, verified by satisfactory certificates, together with a specimen of the oil, to be produced to the Society on or before the last Tuesday in March, 1824.

### *Crown Glass.*

61. To the person who shall make Crown or Window Glass equally transparent, and as free from blue and green colour as the best German sheet;—*the Gold Vulcan Medal, or Thirty Guineas.*

Certificates that not less than two cwt. has been made, together with one whole plate and two of the largest squares that can be cut, and a full account of the proportions of the ingredients, and of the process of manufacture, to be produced to the Society on or before the last Tuesday in February, 1824.

### *Flint Glass.*

62. To the person who shall make flint glass free from veins, and as dense and transparent as the best now in use, and quite fit for the purposes of Opticians;—*the Gold Medal, or Thirty Guineas.*

A full account of the process, with cer-

tificates that not less than two cwt. has been made, together with 20lbs. in plates not less than six inches wide, and three quarters of an inch thick, to be produced to the Society, on or before the last Tuesday in January, 1824.

*Indelible Ink.*

63. To the person who shall discover to the Society a method of making a Black Ink proper for writing, superior to any at present known, indestructible by chemical applications, and not too dear for common use;—*the Silver Medal, or Fifteen Guineas.*

Certificates that not less than two gallons of such ink have been actually prepared, and found to possess the qualities above-mentioned, with a full detail of the process of making it, and two quarts of the ink, to be delivered to the Society on or before the second Tuesday in February, 1824.

*Printers' Ink.*

64. To the person who shall invent and discover to the Society the best composition for Printers' Ink, superior to any hitherto known or in use;—*the Gold Medal, or Thirty Guineas.*

Certificates that 112lbs. of such ink have been made, with a full account of the process employed, and 6lbs. of the ink, to be produced to the Society on or before the last Tuesday in February, 1824.

*Copper Plate Printers' Ink.*

65. To the person who shall invent and discover to the Society the best composition for Printers' ink, superior to any hitherto known or in use, and fit for the finest kind of copper-plate printing;—*the Gold Medal, or Thirty Guineas.*

Certificates and conditions the same as for the last premium.

*Rendering Leather Water-proof.*

66. To the person who shall discover a method, superior to any now in use, and of moderate price, of rendering Leather Water-proof, without injuring its texture or pliability;—*the Silver Medal, or Fifteen Guineas.*

A full account of the process, and of the ingredients employed, together with their

proportions, attested by satisfactory certificates, as well as samples of the leather in its unprepared and prepared state, to be produced to the Society on or before the last Tuesday in February, 1824.

*Preserving Seeds of Vegetables.*

67. For the best method of preserving Seeds of Plants in a state fit for vegetation a longer time than has hitherto been practised, such method being superior to any known to the public, and verified by sufficient trial, to be communicated to the Society on or before the last Tuesday in December, 1824;—*the Gold Medal, or Thirty Guineas.*

*Preserving Provisions from becoming rancid or rusty.*

68. To the person who shall discover to the Society the best, cheapest, and most efficacious method of preserving Salted Provisions from becoming rancid or rusty;—*the Gold Medal, or Thirty Guineas.*

A full description of the method, with proper certificates that it has been found, on repeated trials, to answer the purpose intended, to be produced to the Society on or before the last Tuesday in February, 1824.

*Preserving Iron from Rust.*

69. To the person who shall invent and discover to the Society a cheap composition superior to any now in use, which shall effectually preserve Wrought Iron from rust;—*the Gold Medal, or Fifty Guineas.*

A full description of the method of preparing the composition, with certificates that it has stood at least two years unimpaired, being exposed to the atmosphere during the whole time, to be produced to the Society, with ten pounds weight of the composition, on or before the last Tuesday in January, 1824.

*Preventing the Dry-rot in Timber.*

70. To the person who shall discover to the Society a certain method of preventing the Dry-rot in Timber, superior to any hitherto known;—*the Gold Medal, or Thirty Guineas.*

The particulars of the method of pre-



vention, confirmed by repeated experiments, to be produced to the Society on or before the last Tuesday in February, 1824.

### *Preventing the Mildew in Paper.*

71. To the person who shall communicate to the Society a process to be used in the manufacture of paper, or some application to be made to manufactured paper, which shall effectually prevent it from becoming mildewed;—*the Gold Medal, or Thirty Guineas.*

A full account of the process employed, with certificates and other evidence of its efficacy, to be communicated to the Society on or before the last Tuesday in March, 1824.

This premium is continued one year further on the same conditions.

### *Preventing the Destructive Effects from Moths.*

72. To the person who shall discover to the Society a cheap, easy, and effectual method, verified by repeated and satisfactory trials, of preventing the destructive effects occasioned by Moths and other insects, in furs, woollens, and other articles, superior to any hitherto known or practised;—*the Gold Medal, or Thirty Guineas.*

The accounts, with proper certificates, to be produced to the Society on or before the first Tuesday in January, 1824.

### *Substitute for Lead Pipes.*

73. To the person who shall invent and produce to the Society, a substitute for the Lead Pipes used for conveying malt and other liquors from the cellars to the bars of public-houses, superior to any other metal-pipes now in use;—*the Gold Medal, or Fifty Guineas.*

The substance of which the pipe is made must be free from any poisonous or noxious quality, equally durable as lead, and of a moderate expense; and a specimen thereof, not less than ten yards in length, with a complete description of the process employed in forming it, must be produced to the Society on or before the last Tuesday in February, 1824.

### *Substitute for the Basis of White Paint.*

74. To the person who shall produce

to the Society the best substitute, superior to any hitherto known, for the basis of white paint, equally proper for the purpose as the white lead now employed; such substitute not to be of a noxious quality, and to be afforded at a price not materially higher than that of white-lead;—*the Gold Medal, or One Hundred Guineas.*

A quantity of the substitute, not less than 25lbs. weight, with an account of the process used in preparing it, and certificates that at least one hundred weight has been manufactured, to be produced to the Society on or before the first Tuesday in February, 1824.

### *Substitute for Tar.*

75. To the person who shall invent and discover to the Society the best substitute for Stockholm tar, equal in all its properties to the best of that kind, and prepared from materials the produce of the United Kingdom, or its colonies;—*the Gold Medal, or One Hundred Guineas.*

A quantity of the substitute, not less than one hundred weight, with certificates that at least one ton has been manufactured, and that it can be afforded at a price not exceeding that of the best foreign tar, together with an account of the process, to be delivered to the Society on or before the first Tuesday in March, 1824.

*N. B.* Tar is produced in Sweden and Norway from the roots of fir-trees burnt for that purpose.

### *Dyeing Silk of a Pink or Rose Colour.*

76. To the person who shall invent and discover to the Society, a process of dying Rose and Pink colours in Silks, without the use of Safflower, by a substitute of British or colonial growth, which shall produce a colour equally beautiful and permanent, and at an expense not more than two-thirds of the current price;—*the Gold Medal, or Thirty Guineas.*

The communication, with a full account of the processes employed, and certificates that the required conditions are accomplished, to be produced to the Society on or before the last Tuesday in March, 1824.

*Improved Black Dye for Silk or Wool.*

77. To the person who shall invent and discover to the Society a black dye for silk or wool superior in colour and durability to any at present in use;—*the Gold Medal, or Fifty Guineas.*

This premium is more immediately intended for the improvement of those colours known by the name of blue blacks.

A full account of the process and ingredients employed, together with their proportions, attested by satisfactory certificates, as well as samples of the silk or wool so dyed, to be produced to the Society, on or before the last Tuesday in March, 1824.

*Dyeing with Lac Lake.*

78. To the person who shall invent and discover to the Society a process for dyeing silk, wool, or cotton with lac lake, superior to any now in use;—*the Gold Medal, or Thirty Guineas.*

A full account of the process, with certificates that it has been found to answer completely in use, and specimens of articles so dyed, to be produced to the Society on or before the last Tuesday in March, 1824.

*Preparation of a Red Stain for Cotton Cloth.*

79. To the person who shall communicate to the Society the most effectual method of printing or staining cotton cloth with a red colour, by an immediate application of the colouring matter to the cloth, equally beautiful and durable with the red colours now generally procured from decoctions of madder;—*the Gold Medal, or Fifty Guineas.*

Certificates that the process has been advantageously used on ten pieces of calico, each twenty-one yards or upwards in length; one piece of the calico so printed, one pound of the colour, and a full account of the preparation and application thereof, to be produced to the Society on or before the second Tuesday in February, 1824.

*Preparation of a Green Colour for printing Cotton Cloth.*

80. To the person who shall communicate to the Society the best method of

printing with a full green colour on cotton cloth, by an immediate application of the colouring matter from a wooden block to the cloth, equally beautiful and durable as the colours now formed from the complicated process of the decoction of weld, and the solutions of indigo;—*the Gold Medal, or Fifty Guineas.*

Certificates and conditions as for Premium 79.

*Permanent White Paint for the Use of Artists.*

81. To the person who shall produce to the Society a White Paint for oil, superior to any hitherto known, and not liable to be discoloured by exposure to light or to sulphuretted hydrogen gas;—*the Gold Medal, or Thirty Guineas.*

A full account of the process, and 1 lb. of the colour to be produced to the Society, on or before the second Tuesday in February, 1824.

*Red Pigment.*

82. To the person who shall discover to the Society a full and satisfactory process for preparing a Red Pigment, fit for use in oil or water, equal in tone and brilliancy to the best carmines and lakes now known or in use, and perfectly durable;—*the Gold Medal, or Fifty Guineas.*

One pound weight of such colour, and a full disclosure of its preparation, to be produced to the Society on or before the first Tuesday in February, 1824.

N. B. It is required, that the colour should remain unaltered by common exposure to strong light, damps, and noxious vapours.

*Ultramarine.*

83. To the person who shall prepare an artificial Ultramarine, equal in colour, brilliancy, and durability, to the best prepared from lapis lazuli, and which may be afforded at a cheaper rate;—*the Gold Medal, or Thirty Guineas.*

The conditions are the same as in the preceding premium for the red pigment.

*Colourless Lac Varnish.*

84. To the person who shall produce to the Society a varnish made from shell or seed lac, equally hard and as fit for use in the arts as that at present prepared from the above substances, but deprived of its colouring matter;—*the Gold Medal, or Thirty Guineas.*

A full account of the process, and one quart of the varnish to be produced to the Society on or before the second Tuesday in January, 1824.

*Statuary Marble.*

85. To the person who shall discover within Great Britain or Ireland, a quarry of White Marble fit for the purposes of statuary, and equal to those kinds now imported from Italy;—*the Gold Medal, or One Hundred Guineas.*

A block of at least three feet in length, two in height, and two in width, with an account of the situation of the quarry, and certificates of its possessing considerable extent, to be produced to the Society on or before the first Tuesday in February, 1824.

*N. B.* In order to prevent useless expense or trouble to the claimant in forwarding so large a block, the Society will be ready to examine any smaller specimen of the marble, and will express their opinion of its value to the Candidate before the block required by the above premium is produced.

*Stone for Lithography.*

86. To the person who shall discover within Great Britain or Ireland, a quarry of Stone fit for the purposes of Lithography, equal at least to the stones imported from abroad; *the Gold Medal, or Thirty Guineas.*

A specimen of the stone at least two feet square and two inches in thickness, with an account of the situation of the quarry, and certificates of its possessing considerable extent, to be produced to the Society on or before the last Tuesday in February, 1824.

*Mineralogical and Geological County Maps.*

87. To the person who shall complete

and publish the best Mineralogical and Geological Map of any county in the United Kingdom, on a scale of not less than one inch to a mile, containing an account of the situation of the different mines therein, and describing the kinds of minerals thence produced, with sections of the strata;—*the Gold Medal, or Fifty Guineas.*

The map, with certificates of its accuracy, to be produced to the Society on or before the first Tuesday in February 1824. One impression of the map to remain the property of the Society.

*Mineralogical and Geological Map of Ireland.*

88. To the person who shall complete and publish an accurate Mineralogical and Geological Map of Ireland, on a scale of not less than five miles to an inch, containing particulars described in the foregoing premium;—*the Gold Medal, or Fifty Guineas.*

The conditions are the same as in the preceding.

*Mineralogical and Geological Map of Scotland.*

89. The same premium is offered for a Mineralogical and Geological Map of Scotland, on similar conditions.

*Natural History.*

90. To the author who shall publish the Natural History of any county in the United Kingdom;—*the Gold Medal, or Fifty Guineas.*

It is required that the several natural productions, animal, vegetable, and mineral, peculiar to the county, or found therein, be carefully and scientifically arranged and described, in order that the public may be enabled to judge what arts or manufactures are most likely to succeed in such county. A copy of the work to be delivered to the Society on or before the last Tuesday in February 1824, to remain the property of the Society.

## PREMIUMS IN POLITE ARTS.

### HONORARY PREMIUMS FOR NOBILITY.

*To GENTLEMEN under the Age of Twenty-five, Sons or Grandsons of Peers or of Peeresses in their own right of the United Kingdom.*

91. For the best original painting or drawing of an historical subject;—*the Gold Medal*; for the next in merit, *the Gold Isis Medal*.

92. For the best copy of an historical subject;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

93. For the best original painting or drawing of a portrait;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

94. For the best copy of a portrait;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

95. For the best original painting or drawing of a landscape;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

96. For the best copy of a landscape;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

97. For the best original painting of flowers or fruit;—*the Gold Isis Medal*; for the next in merit; *the Silver Medal*.

98. For the best copy of fruit or flowers;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

99. For the best original Painting of still-life;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

100. For the best copy of still life;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

*To LADIES under the Age of Twenty-five, Daughters or Grand-daughters of Peers or of Peeresses in their own right of the United Kingdom.*

101. For the best original painting or

drawing of an historical subject;—*the Gold Medal*; for the next in merit, *the Gold Isis Medal*.

102. For the best copy of an historical subject;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

103. For the best original painting or drawing of a portrait;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

104. For the best copy of a portrait;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

105. For the best original painting or drawing of a landscape;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

106. For the best copy of a landscape;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

107. For the best original painting of flowers or fruit;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

108. For the best copy of flowers or fruit;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

109. For the best original painting of still-life;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

110. For the best copy of still-life;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

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### HONORARY PREMIUMS FOR GENTLEMEN AND LADIES.

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*To GENTLEMEN under the Age of Eighteen.*

111. For the best drawing in chalk, pencil, or Indian Ink, being a copy from any picture, print, or drawing of a head or figure;—*the Silver Isis Medal*; for the next in merit, *the Silver Palette*.

*To GENTLEMEN under the Age of Twenty.*

112. For the best drawing in chalk, pencil, or Indian ink, from a bust;—*the*

*Silver Medal*; for the next in merit, *the Silver Isis Medal*.

**To GENTLEMEN under the Age of Twenty-one.**  
*Drawings and Paintings in Water Colours.*

113. For the best drawing in chalk, pencil, or Indian ink, from a statue or cast in plaster, of an entire figure;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

114. For the best drawing in pencil, Indian ink, or chalk, of an historical subject, being a copy;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

115. For the best painting in water-colours, of an historical subject, being a copy;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

116. For the best drawing in pencil, Indian ink, or chalk, of a portrait, being a copy;—*the Silver Isis Medal*; for the next in merit, *the Silver Palette*.

117. For the best painting in water-colours of a portrait, being a copy;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

118. For the best drawing in pencil, Indian ink, or chalk, of a landscape, being a copy;—*the Silver Isis Medal*; for the next in merit, *the Silver Palette*.

119. For the best painting in water-colours of a landscape, being a copy;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

120. For the best painting in water-colours of flowers or fruit, being a copy;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

**Paintings in Oil.**

121. For the best copy in oil colours of an historical subject;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

122. For the best copy in oil colours of a portrait;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

123. For the best copy in oil colours of a landscape;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

124. For the best copy in oil colours of flowers or fruit;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

**To GENTLEMEN under the Age of Twenty-five.**

*Drawings and Paintings in Water Colours.*

125. For the best original painting in water-colours of an historical subject;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

126. For the best original painting in water-colours of a portrait, being a miniature;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

127. For the best original painting in water-colours of a landscape;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

128. For the best original painting in water-colours of flowers or fruit;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

129. For the best original painting in water-colours of still-life;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

**Paintings in Oil.**

130. For the best original painting in oil colours of an historical subject, consisting of not less than three figures;—*the Gold Medal*; for the next in merit, *the Gold Isis Medal*.

131. For the best original painting in oil colours of a portrait;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

132. For the best original painting in oil colours of a landscape;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

133. For the best original painting in oil colours of flowers or fruit;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

134. For the best original painting in oil colours of still-life;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

**To LADIES under the Age of Eighteen.**

135. For the best drawing in pencil, Indian ink, or chalk, being a copy, from any picture, print, or drawing, of a head or figure;—*the Silver Isis Medal*; for the next in merit, *the Silver Palette*.

*To LADIES under the Age of  
Twenty.*

136. For the best drawing in pencil, Indian ink, or chalk, from a bust;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

*To LADIES under the Age of  
Twenty-one.  
Drawings and Paintings in Water  
Colours.*

137. For the best drawing in pencil, Indian ink, or chalk, from a statue or cast in plaster, of an entire figure;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

138. For the best drawing in pencil, Indian ink, or chalk, being a copy, of an historical subject;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

139. For the best painting in water-colours, being a copy, of an historical subject;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

140. For the best drawing in pencil, Indian ink, or chalk, being a copy, of a portrait;—*the Silver Isis Medal*; for the next in merit, *the Silver Palette*.

141. For the best painting in water-colours of a portrait, being a copy, *the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

142. For the best drawing in pencil, Indian ink, or chalk, of a landscape, being a copy; *the Silver Isis Medal*; for the next in merit, *the Silver Palette*.

142\*. For the best painting in water-colours of a landscape, being a copy;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

143. For the best painting in water-colours, being a copy, of fruit or flowers;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

*Paintings in Oil.*

144. For the best copy in oil colours of an historical subject;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

145. For the best copy in oil colours of a portrait;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

146. For the best copy in oil colours of a landscape;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

147. For the best copy in oil colours of fruit or flowers;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

*To LADIES under the Age of  
Twenty-five.*

*Drawings and Paintings in Water  
Colours.*

148. For the best original painting in water-colours of an historical subject;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

149. For the best painting of a portrait in water-colours, being a miniature;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

150. For the best original painting in water-colours of a landscape;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

151. For the best original painting in water-colours of fruit or flowers;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

152. For the best original painting in water-colours of still-life;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

*Paintings in Oil.*

153. For the best original painting in oil colours of an historical subject, consisting of not less than three figures;—*the Gold Medal*; for the next in merit, *the Gold Isis Medal*.

154. For the best original painting in oil colours of a portrait;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

155. For the best original painting in oil colours of a landscape;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

156. For the best original painting in oil colours of fruit or flowers;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

157. For the best original painting in oil colours of still-life;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

*N.B.* As the foregoing honorary premiums are intended only for the nobility and gentry; persons professing any branch of the polite arts, or any business dependent on the arts of design, or the sons and daughters of such persons, will not be admitted candidates in the above classes.

## PREMIUMS FOR ARTISTS AND OTHERS.

### *Human Figure.*

158. For the best drawing in chalk, pencil, or Indian ink, copied from any picture, print, or drawing, by persons under the age of sixteen;—*the Silver Isis Medal*; for the next in merit, *the Silver Palette*.

159. For the best outline, drawn from any entire figure of the antique, or cast in plaster—the size of the drawing to be not less than twenty-four inches, to be accompanied with the drawing of a hand and foot the size of life—by persons under the age of eighteen;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

160. For the best drawing from any entire antique figure, or from any cast in plaster—the size of the drawing to be not less than twenty-four inches, to be accompanied with a drawing of a hand and foot, the size of life, by persons under the age of nineteen;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

161. For the best outline drawing of an entire anatomical human figure, from a model or cast—the size of the drawing to be not less than twenty-four inches, to be accompanied with a drawing of a hand and foot, the size of life, by persons under the age of nineteen;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

162. For the best drawing, from the living figure—the size of the drawing to be not less than twenty-four inches, by persons under the age of twenty-one;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

163. For the best copy in water-colours from any picture, being a composition of two or more figures, the size of the principal figure not less than nine inches, by persons under the age of twenty-one;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

164. For the best original drawing, being a composition of two or more figures, the principal figure not less than nine inches, by persons under the age of twenty-five;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

165. For the best copy in oil from any

picture, being a composition of two or more figures, the principal figure not less than twenty-four inches, by persons under the age of twenty-one;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

166. For the best original painting in oil, being an historical composition, of not less than three figures, the principal figure not less than twenty-four inches high, and the size of the canvas to be a common half length (or three feet four inches by four feet two inches); the subject to be taken from English history previous to the reign of Charles the First, by persons under the age of twenty-five;—*the Gold Medal*; for the next in merit, *the Gold Isis Medal*.

167. For the best original painting in oil, being a composition of two or more figures, the principal figure not less than twenty-four inches, by persons under the age of twenty-five;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

### *Heads or Portraits.*

168. For the best drawing of a head, copied from any picture, drawing, or print, by persons under the age of sixteen;—*the Silver Isis Medal*; for the next in merit, *the Silver Palette*.

169. For the best finished drawing of a head, not less than the size of life, from any bust, by persons under the age of eighteen;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

170. For the best painting in oil, of a group, of not less than three heads, from the antique, the size of the canvas to be a kit-cat, by persons under the age of nineteen;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

171. For the best original painting in water-colours of a portrait, or group of portraits, by persons under the age of twenty-one;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

172. For the best portrait in miniature, in water-colours, being a copy, by persons under the age of twenty;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

173. For the best original portrait in miniature, in water-colours, by persons

under the age of twenty-five;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

174. For the best copy, in oil, of a portrait, by persons under the age of nineteen;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

175. For the best original painting in oil of a portrait, by persons under the age of twenty-three;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

### Models.

176. For the best model in bass-relief, from any entire antique figure, or cast in plaster, the size of the model not less than twenty-four inches, by persons under the age of eighteen;—*the Silver Isis Medal*; for the next in merit, *the Silver Palette*.

177. For the best model in bass-relief from the living figure, by persons under the age of twenty-one, the model not less than twenty-four inches;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

178. For the best model of a bust from the antique, of a different size from the original, by persons under the age of twenty-one;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

179. For the best model of a bust from nature, of the size of life, by persons under the age of twenty-one;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

180. For the best model in the round from an entire antique figure, the model not less than twenty-four inches high, by persons under the age of twenty-one;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

181. For the best original model of a group, the figures not less than twenty-four inches, by persons under the age of twenty-five;—*the Gold Medal*; for the next in merit, *the Gold Isis Medal*.

182. For the best coloured anatomical model of a dissected limb, or other part of the human body, natural or morbid, in wax or other substance;—*the Gold Medal*.

### Landscape.

183. For the best drawing of a landscape, copied from any picture, drawing,

or print, by persons under the age of eighteen;—*the Silver Isis Medal*; for the next in merit, *the Silver Palette*.

184. For the best original drawing of a landscape from nature, by persons under the age of twenty-one;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

185. For the best original oil painting of a landscape from nature, by persons under the age of twenty-three;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

186. For the best original composition of a landscape painted in oil, by persons under the age of twenty-five;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

187. For the best original marine painting, in oil, of two or more vessels, by persons under the age of twenty-five;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

### Flowers, or Fruit.

188. For the best painting in water-colours, by persons under the age of sixteen;—*the Silver Isis Medal*; for the next in merit, *the Silver Palette*.

189. For the best original composition in water-colours from nature, by persons under the age of twenty-one;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

190. For the best original composition in oil, painted from nature, by persons under the age of twenty-five;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

### Animals.

191. For the best drawing of any animal, copied from any picture, print, or drawing, by persons under the age of sixteen;—*the Silver Isis Medal*; for the next in merit, *the Silver Palette*.

192. For the best original drawing from nature of any animal, by persons under the age of twenty-one;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

193. For the best original painting in oil, of a group of not less than three animals painted from nature, by persons under the age of twenty-five;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.



*Still-Life.*

194. For the best original composition, painted in oil or water-colours, of three or more of such subjects as are usually called Still-Life, by persons under the age of twenty-one;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

*Vignette.*

195. For the best design for a vignette to be printed at the head of the Society's letters, &c.;—*the Gold Isis Medal*.—The design to remain the property of the Society.

*Architecture.*

196. For the best perspective drawing of a Corinthian capital, not less than eighteen inches high, by persons under twenty-one years of age;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

197. For the best original design of a bridge, adapted to the purposes and site of London-bridge, consisting of plan, elevation, section, and perspective view, to the scale of 1-16th of an inch to a foot; the drawing to remain the property of the Society, if required, by persons under the age of thirty;—*the Gold Medallion*; for the next in merit, *the Gold Isis Medal*.

Designs that have been previously exhibited, are excluded from competition for the above premium.

The following inscription to be engraved on the medallion: "*The Premium given by the Society for the encouragement of Arts, Manufactures, and Commerce, in conformity to the will of John Stock, esq. of Hampstead.*"

198. For the best design for a church of pure Doric architecture;—*the Gold Medallion*; for the next in merit, *the Silver Medal*.

It is recommended that the building resemble a Grecian Temple as nearly as its adaptation to the purposes of a church will permit. The drawings sent in for this premium to consist of one or more plans, elevations, and perspective views, with separate representations of such parts as may be necessary to give a complete explanation of the design. The drawings to be made on a scale of  $\frac{1}{4}$  of an inch to a foot and the particular parts on a larger scale, if necessary. The claims for this premium to be sent in to the Society on or before the third Tuesday in January, 1835.

The object of the Society in offering this premium, is to promote the erection of such public buildings as would be an honour to the country.

199. For the best design in Greek architecture of an uniform building, fit for three or more dwelling houses, and adapted to the streets or squares of the Metropolis, to consist of plan, elevation, and perspective view, on a scale of  $\frac{1}{4}$  of an inch to a foot, by persons under the age of thirty; *the Gold Isis Medal*.

*Perspective.*

200. For the best perspective drawing from any public building in the United Kingdom, from elevations taken by actual measurement, and projected according to rule, drawn on large elephant paper, by persons under the age of twenty-one;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

201. For the best perspective drawing of machinery, by persons under the age of twenty-one, *the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

*Enamel Painting.*

202. For the best enamel painting of a head, by persons under the age of twenty-one;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

203. For the best historical painting in enamel, by persons under the age of twenty-five;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

*Carving in Wood.*

204. For the best carving in Wood of fruit, or flowers, not less than nine inches high, by persons under the age of twenty-three;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

205. For the best carving in Wood, of one or more animals, the size of the animal not less than eight inches, by persons under the age of twenty-three;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

206. For the best carving in Wood, of one or more human figures, not less than a foot in height, by persons under the age of twenty-five;—*The Gold Isis Medal*; for the next in merit, *the Silver Medal*.

### Etching.

207. For the best free Etching in historical composition, from a picture of eminence, by persons under the age of twenty-five;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

208. For the best free Etching of a landscape, from a picture of eminence, by persons under the age of twenty-five;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

### Finished Engravings, on Steel, or Copper.

209. For the best finished Engraving in historical composition, by persons under the age of thirty;—*the Gold Isis Medal*; for the next in merit, *the Gold Isis Medal*.

210. For the best finished Engraving of a landscape, by persons under the age of thirty;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

211. For the best finished Engraving of a portrait, by persons under the age of thirty;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

212. For the best finished Engraving of a portrait in Mezzotinto, by persons under the age of thirty;—*the Silver Medal*.

*N. B.*—In the class of finished engravings the Society requires an aquafortis impression, and a finished proof, to be sent, and to remain with the Society.

### Engraving on Blocks.

213. For the best Engraving on Wood Blocks, of an historical subject, the size of the principal figure not less than six inches in height, and the Block to be at least twelve inches by nine;—*the Gold Isis Medal*.

Two or more impressions, with the Block, to be produced to the Society. The impressions, but not the block, to remain the property of the Society.

214. The same premium under the same conditions, is offered for engraving on Metal Blocks.

### Lithography.

215. For the best specimen in this art;—*the Silver Medal*.

A particular account of the process employed, with six impressions of the drawing, to be produced to the Society.

216. For the best method of transferring drawings from the paper to the stone, for the purpose of Lithography, superior to any hitherto in use—*the Silver Medal*, or *Twenty Guineas*.

A complete account of the process employed, with specimens of the materials, to be produced to the Society on or before the first Tuesday in March, 1824.—Two specimens of the impression to remain with the Society.

### Medal Die Engravings.

217. For the best die Engraving either of a head or single figure, after the engraver's own design and model; by persons under the age of 21;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

218. For the best die engraving of a group, after the Engravers own design and model, by persons under the age of thirty;—*the Gold Medal*, for the next in merit, *the Gold Isis Medal*.

The Dies, with two impressions or casts, and the model, in each claim for Medal Die sinking, are to be produced to the Society, and the impressions or casts to remain the property of the Society.

219. To the person who shall discover and communicate to the Society a method of hardening Medal Dies, superior to any hitherto known, and which shall completely prevent the surface of the die from being cracked, scaled, warped, or otherwise injured;—*the Gold Medal*, or *Thirty Guineas*.

A full detailed account of all the processes required to produce the effect, with certificates of their successful application, to be delivered to the Society on or before the first Tuesday in March, 1824.

### Gem Engraving.

220. For the best engraving in intaglio, of a head or single figure on carnelian or other hard stone, being a copy;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

221. For the best engraving in intaglio of a head or figure, after the engraver's own design and model, on carnelian or other hard stone;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

222. For the best engraving in intaglio of a group, after the engraver's own design and model, on carnelian or other hard stone;—*the Gold Medal*; for the next in merit, *the Gold Isis Medal*.

223. For the best engraving in cameo, of a head or single figure in carnelian, or other hard stone, being a copy;—*the Silver Medal*; for the next in merit, *the Silver Isis Medal*.

224. For the best engraving in cameo of a head or figure, after the engraver's own design and model, on carnelian or other hard stone;—*the Gold Isis Medal*; for the next in merit, *the Silver Medal*.

225. For the best engraving in cameo of a group, after the engraver's own design and model, on carnelian or other hard stone;—*the Gold Medal*; for the next in merit, *the Gold Isis Medal*.

#### *Premium for Medical or Surgical Students.*

226. For the best Original Drawing (made from actual dissection), of the anatomy of the human body, or of any part thereof, sufficiently free and accurate for the purposes of Surgery; such drawing to be not less than the natural size of the parts; by persons under the age of twenty-two;—*the Silver Medal*, for the next in merit, *the Silver Isis Medal*.

It is required that each drawing be accompanied by an outline, with the necessary references to render the Drawing intelligible.

#### *Conditions for the Polite Arts.*

All performances in the class of Polite Arts, are to be produced to the Society on or before the first Tuesday in March, 1824, and none can be received after that day.

No Candidate, under any pretence whatever, shall be allowed to retouch or varnish a performance after it has been received by the Society.

No Candidate having received a premium or bounty, shall receive an equal reward in the same class, or an inferior reward, in any class of the same department of art.

No more than one performance in each class shall be received from the same Candidate.

All performances to which premiums or bounties are adjudged, shall remain with the Society until after the second

Wednesday in June, 1824, when they will be re-delivered, unless mentioned in the premiums to the contrary,

No performance shall be admitted, that has obtained a reward from any other society, or academy.

All performances must have been executed within the year previous to their being sent in to the Society.

No performance can be received which does not come into one of the foregoing classes, and which does not agree with the conditions of the class in which it is introduced, except by a particular recommendation from the committee, and confirmed by the Society, that it is deserving of being made an exception to the general rule, and in such case a bounty may be given.

It is required, that the subjects for which premiums are offered, be delivered in without the names, or any external intimation to whom they belong; that the Candidate affix on the front of his performance whatever mark he pleases, and that the same mark be inscribed on the outside of a paper sealed up, containing within, the name and residence of the Candidate, and on the outside, the sex, and age, as being under respectively 16, 20, or 25 years, and the number of the premium in claim of which the performance is offered, and whether the Candidate has previously received from the Society any and what reward; the name not to be disclosed unless the Candidate be successful, or in consequence of a special vote of the Society, or Committee.

To encourage real merit, and to prevent attempts to impose on the Society, by producing drawings made or retouched by any other person than the Candidate, the Society require a specimen of the abilities of each successful Candidate to be made under the inspection of the Committee of Polite Arts.

All Candidates in the Polite Arts, are required to signify on their drawings, whether the performances are originals or copies; and if possible to send the originals from which the copies are taken.

All copies of prints and drawings, are to be on a different scale from the original.

The Society reserve to themselves the power of giving medals of less value than those proposed; or of withholding them altogether in cases where the performance shall be deemed undeserving of reward. But if there should be in the same class more than two works of merit, deserving encouragement, the Committee is allowed to recommend at the same time to the Society, that a bounty be given; and in case of the second premium offered being the lowest reward which the Society gives,

such lowest reward may be repeated as a bounty.

In consideration of the great number of premiums here offered, embracing so many

departments of the Fine Arts, no bounty can be given, except in such cases as are mentioned in the preceding conditions.

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## PREMIUMS FOR ENCOURAGING AND IMPROVING MANUFACTURES.

### *British Merino Wool.*

227. To the person who shall prove to the Society, that he has sold the largest quantity of Merino Wool, or such Wool as will answer the same purpose, being the produce of his own flock, in the United Kingdom, for the purpose of being manufactured into superfine cloth, the quantity of Wool not less than five hundred weight, in the year 1823 ;—*the Gold Medal.*

Certificates, along with samples of the wool, and of the cloth manufactured from it, to be produced to the Society, on or before the last Tuesday in March, 1824.

228. For the next greatest quantity, not less than two hundred and fifty pounds ;—*the Silver Medal*, on similar conditions.

### *Wicks for Candles.*

229. To the person who shall make known to the Society the most satisfactory result of a series of experiments actually made by him to determine the best thickness of Cotton Wicks for Candles, so as to obviate the defects of those commonly used ;—*the Silver Medal*, or *Ten Guineas.*

Certificates, that not less than one hundred weight have been so made, and six pounds of the Candles, to be produced to the Society, on or before the last Tuesday in February, 1824.

*N.B.* The intention in offering this premium is, to ascertain the proper thickness or bulk of the wick in proportion to that of the tallow, and to remove the unpleasant consequences and waste arising from the sparkling, or guttering of the candles in common use.

### *Transparent Paper.*

230. To the person who shall discover

to the Society a method of making Paper from the pulp, that shall be perfectly transparent, and that shall take and bear common writing-ink with the same facility and correctness as writing-paper, generally in use ;—*the Silver Medal*, or *Twenty Guineas.*

Certificates of the making such paper an account of the process, and one ream of the paper, to be produced to the Society, on or before the second Tuesday in March, 1824.

[CHINA PAPER, see premium 293.]

### *Leather for Gloves.*

231. To the person who shall make known to the Society a process equal or superior to that of the French, for preparing, dyeing, and finishing skins for fine gloves, verified by actual experiment, and the communication accompanied with at least a dozen pair of gloves made from skins so prepared ;—*the Gold Medal*, or *Forty Guineas.*

Certificates from competent persons fully approving of the result of such experiments, together with the gloves and communication, to be produced to the Society, on or before the last Tuesday in March, 1824.

### *Catgut.*

232. To the person who shall discover to the Society the best method of manufacturing, the intestines of sheep, lambs, goats, or of any other animals, into the article called Cat-gut, equally strong, clear, smooth, even, and free from knots, as the best Italian strings, and at a price not exceeding what they are usually sold for in England ;—*the Gold Medal*, or *Thirty Guineas.*

Certificates that not less than fifty pound weight have been so prepared by

the claimant, with a full detail of the process, and samples of the articles of various thicknesses, to be produced to the Society on or before the first Tuesday in February, 1824.

233. For the next greatest quantity, not less than twenty-five pounds;—*the Silver Medal*, or *Twenty Guineas*, on similar conditions.

### *Hose for Fire Engines, Brew-houses, &c.*

234. To the person who shall invent and make known to the Society, a method of making Hose for Fire Engines, Brewhouses, &c. similar to those used on the continent, made of flax or hemp, or other flexible material cheaper than leather;—*The Gold Isis Medal*, or *Thirty Guineas*.

A full account of the process used in manufacturing it, with certificates of its efficacy in practice, to be produced to the Society on or before the last Tuesday in February, 1824.

### *Thread for Lace.*

235. To the person who shall invent and discover to the Society a method of manufacturing Thread from flax, of as fine quality as any used on the Continent;—*the Gold Medal*, or *Thirty Guineas*.

Samples of the Thread, not less than one pound in weight, and of the Lace made therefrom, together with certificates that not less than ten pounds in weight of each sort has been manufactured, to be produced to the Society on or before the last Tuesday in March, 1824.

### *Shawls of Cachemire Wool.*

236. To the person who shall invent and produce to the Society the best imitation of Indian Shawls, made from real Cachemire Wool, without any mixture of silk or other article;—*the Gold Medal*, or *Thirty Guineas*.

Certificates from competent persons approving the articles manufactured, with a full account of the process employed therein, to be produced to the Society on or before the last Tuesday in March, 1824.

### *Cloth from New South Wales Wool.*

237. To the person who shall manufacture the finest specimen, at a fair market price, of Cloth from wool imported from New South Wales, not less than 35 yards, without any admixture of other wool;—*the Gold Isis Medal*.

Certificates from competent persons approving of the article so manufactured, with a full account of the process employed therein, and of any peculiar qualities discoverable in the process of manufacturing, to be produced to the Society on or before the last Tuesday in February, 1824.

### *Organzine Silk.*

238. To the person who shall invent and produce to the Society a method by which to organzine silk equal in quality to the Italian throw, at an expense not more than two-thirds of the current price of throwing;—*the Gold Medal*, or *Fifty Guineas*.

The communication, with a full description of the process, and models or drawings of the apparatus employed, and samples of the produce, with certificates of the invention answering the required conditions, to be produced to the Society on or before the second Tuesday in March, 1824.

### *Machine for Silk Weaving.*

239. To the person who shall invent and produce to the Society a Machine to weave figured silks, for garments, shawls, handkerchiefs, &c. of patterns equally fine and rich as those now made in France, at less expense than the monitures, &c. now in use, also affording greater facility for changing the pattern, and requiring less manual labour in working;—*the Gold Medal*, or *Fifty Guineas*.

Certificates of the performance of the Machine, and a model of the same, to be produced to the Society on or before the last Tuesday in March, 1824.

### *Preventing the Watering of Plain Silks.*

240. To the person who shall invent a method of preventing Plain Silks from

241.\* To the person who shall produce to the Society, on or before the first Tuesday in March 1824, a hat or bonnet, made from indigenous British grass, that shall be equally good in texture and colour as those imported from Leghorn;—*the Silver Medal, or Fifteen Guineas.*

241.\*\* To the person who shall produce to the Society, on or before the first Tuesday in March 1824, the largest quantity (not less than fifty score) of plat fit for manufacturing bonnets, equal in texture to those imported from Leghorn, from the New England Grass, seeds of which have been imported and distributed by the Society, raised in Great Britain;—*the Silver Medal, or Fifteen Guineas.*

241.\*\*\* To the person who shall produce to the Society, on or before the first Tuesday in March 1824, the greatest quantity (not less than six) of hats or bonnets, equal in colour and texture to those imported from Leghorn, manufactured from the New England Grass as above, raised in Great Britain;—*the Silver Medal, or Fifteen Guineas.*

241.\*\*\*\* To the person who shall manufacture and produce to the Society, the

best specimen of matting, resembling India matting, used for covering rooms, and made from materials grown in Great Britain;—*the Silver Medal, or Twenty Guineas.*

Certificates that not less than fifty yards of this matting have been manufactured, and that it will answer the purpose of India matting, and can be afforded at a less price, together with a sample of not less than six yards, and a compleat account of the process of manufacture to be produced to the Society on or before the first Tuesday in March 1824.

241.\*\*\*\*\* To the person who shall invent and produce to the Society a method, better, than any hitherto known, of winding raw silk that is in any degree sticky in its gum, or brittle in its texture, without injuring its colour or texture, or altering its weight, and at a cost not exceeding that of the ordinary methods;—*the Silver Medal, or Twenty Guineas.*

A full description of the process and apparatus used, and samples of the silk, both in its wound and raw state, together with certificates of the process having answered the required conditions, to be produced to the Society, on or before the last Tuesday in February 1824.

being watered in the loom, without the use of a knee-roll;—*the Silver Medal, or Fifteen Guineas.*

Certificates of the method having been practised with success, with a full description thereof, to be delivered to the Society on or before the last Tuesday in March, 1824.

*Weaving Ribbons in the Single Hand Loom.*

241. To the person who shall pro-

duce the best substitute for the plan now used in the Single-Hand Loom, namely, High-lashes and Pass-cords;—*the Gold Isis Medal, or Twenty Guineas.*

The improved plan to be capable of producing ribbons equal in texture to those of French manufacture, and to perform well in every respect. The entire height of the Loom and its appendages not to exceed eight feet. The communication, together with Specimens of ribbons made with the improved Loom, to be produced to the Society on or before the first Tuesday in March, 1824.

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PREMIUMS IN MECHANICS.

*Gunpowder Mills.*

242. To the person who shall invent and discover to the Society the most effectual mode of preventing explosions in Gunpowder Mills;—*the Gold Medal, or One Hundred Guineas.*

Certificates and accounts of the method having been put in practice in one or more Gunpowder Mills in this kingdom, and that it promises, in the opinion of the best judges concerned in such works, to answer the purpose intended, to be produced to the Society on or before the first Tuesday in February, 1824.

*N. B.* As an encouragement to persons to turn their thoughts to improvements of this nature, if any should be made on the present method of conducting the business of Gunpowder-making which fall short of the total prevention of explosion; such bounty or reward will be bestowed on them as they may appear to merit.

*Family or Portable Mill.*

243. To the person who shall invent and produce to the Society, a mill for Grinding Corn for the use of private families, or parish poor; the construction to be simple, the mill to be easily worked, and superior to any hitherto in use;—*the Gold Medal, or Thirty Guineas.*

The Mill, and certificates of its having been used to good effect, to be produced to the Society on or before the last Tuesday in February, 1824. Cheapness and simplicity will be considered as essential parts of its merit; and the Mill, or a model, to remain with the Society.

*Machine for Raising Coals, Ore, &c. &c. &c.*

244. To the person who shall invent and produce to the Society a machine for raising coals, ore, &c. from mines, superior to any hitherto known or in use; and which shall produce the effect at less expense;—*the Gold Medal, or Fifty Guineas.*

A model, with a certificate that a machine at large on the same construction has been advantageously used, to be produced to the Society on or before the second Tuesday in February, 1824.

*Improved Walking-wheel, or Crane.*

245. To the person who shall invent an improved Walking Wheel or Crane, on which the weight or power of any person or persons shall be applied with the greatest safety and effect, and so contrived that the power can be varied according to the greater or less weight to be raised or lowered;—*the Gold Medal, or Thirty Guineas.*

A model, with a certificate that the machine at large has been employed to good effect, to be produced to the Society on or before the second Tuesday in March, 1824.

*Machine for Raising Water.*

246. To the person who shall invent a machine on a better, cheaper, and more simple construction than any

hitherto known for raising water out of wells, &c. from a depth of not less than fifty feet;—*the Gold Medal, or Thirty Guineas.*

Certificates of the performance of the machine, and a model of it, to be produced to the Society on or before the last Tuesday in February, 1824.

### *Extinguishing Fires.*

247. To the person who shall produce to the Society a method for preventing or extinguishing fire in buildings, superior to any now in use;—*the Gold Medal, or Thirty Guineas.*

Certificates of the method having been practised with Success, with a full description thereof, to be delivered to the Society on or before the last Tuesday in January, 1824.

This Premium is offered in compliance with a recommendation in the will of the late Dr. Anthony Fothergill.

### *Boring and Blasting Rocks.*

248. To the person who shall discover to the Society a more simple, safe, cheap, and expeditious method than any hitherto known or in use, of Boring or Blasting Rocks in mines, shafts, wells, &c.;—*the Gold Medal, or Thirty Guineas.*

Certificates of the method having been practised with success, with a full description thereof, to be delivered to the Society on or before the first Tuesday in February, 1824.

### *Heating Rooms for the purpose of Manufactures.*

249. To the person who shall invent and discover to the Society a method of Heating Rooms, superior to and cheaper than any hitherto known or in use, for the purpose of manufacturers;—*the Gold Medal, or Thirty Guineas.*

A model or complete drawing and description of the method, with certificates that it has been successfully practised, to be delivered to the Society on or before the last Tuesday in March, 1824.

### *Improved Ventilation.*

250. To the person who shall invent and produce to the Society a mode of

permanently Ventilating the apartments in hospitals, workhouses, and other crowded places, superior to any now known or used;—*the Gold Medal, or Fifty Guineas.*

A model of the apparatus, and a full account of the means by which the effect has been produced, with proper certificates to be delivered to the Society on or before the last Tuesday in February, 1824.

### *Ventilating Coal Mines.*

251. To the person who shall invent and carry into practice a method of Ventilating Coal Mines so as effectually to prevent the accidents liable to arise from the accumulation of carburetted hydrogen and other gases;—*the Gold Medal, or Fifty Guineas.*

A full account of the process, with certificates of its efficacy, to be produced to the Society on or before the last Tuesday in February, 1824.

*N. B.* The Society will be very glad to attend to any communication, which, though not completely effecting the object, appears to offer an approximation to it. The Society wish particularly to refer candidates for this premium to the communication made by Mr. Ryan, and published in the 34th vol. of the "Transactions," and will consider themselves, obliged to any person who will furnish any information with respect to the attempts which have been made to introduce Mr. Ryan's mode of ventilating coal mines into actual use, and of the success with which this method has been attended.

### *Preventing Accidents from Stage Coaches.*

252. To the person who shall invent and discover to the Society a method of preventing accidents arising from Stage Coaches;—*the Gold Medal, or Thirty Guineas.*

Ample certificates of its efficacy, and a description of the method with models of the machinery used, to be produced to the Society on or before the last Tuesday in February, 1824.

*N. B.* The Society wish to impress strongly on the public the necessity of turning their attention to the above premium, from the number of accidents that daily occur; and suggest whether they might not, in some degree, be prevented, by an alteration in the manner of placing the luggage.



*Preventing Accidents from Horses  
Falling with Two-Wheeled Car-  
riages.*

253. To the person who shall invent and produce to the Society a method, superior to any hitherto known or in use, of preventing accidents from the falling of Horses with two-wheeled Carriages, especially on steep declivities;—*the Gold Medal, or Thirty Guineas.*

A model of the apparatus, and a full account of the means by which the effect has been produced, with proper certificates that the same has been used with success, to be delivered to the Society on or before the second Tuesday in February, 1824.

*Improving Turnpike and other  
Roads.*

254. To the person who shall discover to the Society the most effectual and cheapest method, verified by actual experiment, of combining the materials ordinarily employed in making or repairing Roads, so as to form them of the hardest consistency by their cementing properties, or by an artificial mixture of earth, stones, &c. altered by heat, or any other mode, so as to form an even, hard, and durable carriage-road;—*the Gold Medal, or Thirty Guineas.*

It is required that an accurate account of the method used, and every expense attending it, together with satisfactory certificates of its being effectual, be delivered to the Society on or before the first Tuesday in March, 1824.

*Raising the Bodies of Persons  
who have Sunk under Water.*

255. To the person who shall invent and produce to the Society, a cheap and portable Drag, or other machine, superior to those now in use, for the purpose of taking up, in the best and most expeditious manner, and with the least injury, the bodies of persons who have sunk under water;—*the Gold Medal, or Thirty Guineas.*

The drag or machine, to answer the purpose intended, to be produced to the Society on or before the first Tuesday in March, 1824.

*Preventing prejudicial effects to  
the Persons employed in Dry-  
grinding.*

256. To the person who shall invent and produce to the Society a mode of obviating the prejudicial effects that attend the operation of Pointing Needles, and other branches of Dry-grinding, during which the particles of grindstone-dust, steel, and iron, being thrown into the air, and received with it into the lungs, occasion asthma, consumption, and other painful disorders;—*the Gold Medal, or Thirty Guineas.*

A model of the apparatus, and a full account of the means by which the effect has been produced, together with proper certificates of its practicability and adoption, to be delivered to the Society on or before the second Tuesday in March, 1824.

*Preventing Explosions in Steam-  
engine and other closed Boilers.*

257. To the person who shall invent and discover to the Society a method of rendering closed boilers used for Steam-engines and other purposes, safer than any now in use, and less liable to accidents from explosion;—*the Gold Medal, and not less than Thirty Guineas.*

Ample certificates that the method has been found to answer its intended purpose, to be produced to the Society on or before the last Tuesday in February, 1824.

*An Original Screw.*

258. To the person who shall invent and make known to the Society any mode of producing an Original Screw more perfect than any hitherto known;—*the Gold Medal, or Thirty Guineas.*

A model or complete drawing and description of the method, with a screw not less than twelve inches in length, to be produced to the Society on or before the last Tuesday in February, 1824.

*Working Drawings of a Steam-  
engine.*

259. To the person who shall produce to the Society the best Working Drawings in plan, elevation, and section, of a condensing Steam-engine in its most im-

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proved state, with a full detail of its several parts, and an accurate description thereof;—*the Gold Vulcan Medal, or Thirty Guineas.*

The drawings and description to be produced to the Society on or before the first Tuesday in April, 1824, and if rewarded, to remain the property of the Society.

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## PREMIUMS OFFERED FOR THE ADVANTAGE OF THE COMMERCE OF THE UNITED EMPIRE, AND THE BRITISH COLONIES.

### *Taking Porpoises.*

260. To the people in any boat or vessel, who, in the year 1823, shall take the greatest number of Porpoises, not fewer than thirty, on the coast of Great Britain or Ireland, for the purpose of extracting oil from them;—*the Gold Medal, or Thirty Guineas.*

Certificates of the number, signed by the persons to whom they have been sold or delivered for the purpose of extracting the oil, to be produced to the Society on or before the last Tuesday in February, 1824.

### *Oil from Porpoises, or Sun Fish.*

261. To the person who shall manufacture the greatest quantity of Oil from Porpoises or Sun-fish taken on the coast of Great Britain or Ireland, in the year 1823, not less than twenty tons;—*the Gold Medal, or Thirty Guineas.*

Certificates of the oil having been made from Porpoises or sun-fish actually caught on the coast of Great Britain or Ireland, and two gallons of the oil as a sample, to be produced to the Society on or before the last Tuesday in February, 1824.

### *Exporting British-cured Herrings.*

262. To the person who, not having previously obtained this premium, shall import into the Hamburg or other continental market previous to February, 1824, the greatest quantity of white herrings cured in British or Irish vessels, not less than 500 barrels, in quality at least equal to the best Dutch herrings, and which in the Hamburg or other continental market shall produce prices at least equal to the best Dutch;—*the Gold Medal, or Fifty Guineas.*

263. For the next greatest quantity, not less than 300 barrels;—*the Gold Isis Medal, or Thirty Guineas.*

Proper certificates, and a sixteen gallon cask of the herrings, to be produced to the Society on or before the last Tuesday in February, 1824.

The same premiums to be continued one year longer on similar conditions.

In the 37th, 38th, and 40th volumes of the "Transactions," will be found valuable communications from Mr Denovan of Aberdour, on the cure of British herrings, to which the Society particularly wish to direct the attention of such persons as intend to claim this premium.

### *Curing Mackarel.*

264. To the person who shall, in the year 1823, cure the greatest quantity of Mackarel, not less in number than ten thousand, in the best manner and to the satisfaction of the Society, the same being caught in the British or Irish seas, and cured in a British or Irish vessel or port;—*the Gold Isis Medal, or Twenty-five Guineas.*

265. For the next greatest quantity, not less than five thousand;—*the Silver Medal, or Fifteen Guineas.*

A sixteen gallon barrel of the mackarel to be produced to the Society on or before the first Tuesday in January, 1824, with certificates that the conditions of the premium have been fulfilled, and that the whole were cured in the same manner as the specimens, together with a full description of the process employed.

The same premiums to be extended one year farther, on similar conditions.

*N. B.* Specimens of cured mackarel, which promise to afford a most valuable article of trade and food, even superior to herrings, have been sent to the Society, and have induced them to turn the attention of the public thereto, by offering the above premiums.

*Nutmegs, Mace, Cinnamon and Cloves.*

266. To the person who shall grow the greatest quantity of merchantable Nutmegs, Mace, Cinnamon or Cloves, not less than twenty pounds weight, in any part of his majesty's dominions in the West Indies, or in any British plantation on the coast of Africa, or of the several islands adjacent thereto, and equal to those imported from the islands of the East Indies;—*the Gold Medal, or Fifty Guineas.*

Satisfactory certificates, from the governor or commander-in-chief, of the place of growth, with an account of the number of trees, their age, nearly the quantity of fruit on each tree, and the manner of culture, together with samples, to be produced on or before the first Tuesday in January, 1825.

The same premium is offered for the year 1826.

*Kali for Barilla.*

267. To the person who shall have cultivated, in the Bahama islands, or any other part of his majesty's dominions in the West Indies, or in any other British Plantation, in the year 1823, the greatest quantity of land, not less than two acres, with a Kali equal to the Spanish Kali for the purpose of making Barilla;—*the Gold Medal, or Thirty Guineas.*

268. For the next greatest quantity, not less than one acre;—*the Silver Medal, or Fifteen Guineas.*

Certificates signed by the governor or commander-in-chief for the time being, of the quantity of land so cultivated, and of the state of the plants at the time of signing such certificates, to be delivered to the Society, with samples of the kali, on or before the second Tuesday in February, 1824.

The same premiums, on similar conditions, will be given for Barilla grown in 1824.

*Destroying the Insect commonly called the Borer.*

269. To the person who shall communicate to the Society an effectual method of destroying the insect commonly called the Borer, which is so destructive to the sugar canes in the West India islands;—*the Gold Medal, or Fifty Guineas.*

The discovery to be ascertained by satisfactory certificates, under the hand and seal of the governor or commander-in-chief for the time being, and of some other respectable persons, inhabitants of the islands, or other place, in which the remedy has been successfully applied: such certificates to be delivered to the Society on or before the first Tuesday in February, 1824.

*Cultivation of Hemp in Upper and Lower Canada, Nova Scotia and New Brunswick.*

270. To the person who shall sow with Hemp the greatest quantity of land in the above mentioned provinces, not less than six arpents (each four-fifths of a statute acre), in the year 1823, and shall at the proper season cause to be plucked the summer hemp (or male hemp bearing no seed), and continue the winter hemp (or female hemp bearing seed) on the ground until the seed is ripe;—*the Gold Medal, or Two Hundred Dollars.*

271. To the person who shall sow with Hemp the next greatest quantity of land in the same provinces, not less than five arpents, in the year 1823, in the manner above-mentioned;—*the Silver Medal, or 100 Dollars.*

Certificates of the number of arpents, the method of culture, of the plucking of the hemp, with a general account whether sown broad-cast or in drills, and of the expense, soil, cultivation and produce, to be transmitted to the Society, certified under the hand and seal of the governor or lieutenant-governor, together with 28lbs. of the hemp, and two quarts of the seed, on or before the last Tuesday in April, 1824.

*Importation of Hemp from Canada, Nova Scotia, and New Brunswick.*

272. To the person who shall import to this country the greatest quantity of Marketable Hemp, not less than one hundred tons, in the year 1823, the produce of Canada, or of one of the above-mentioned provinces;—*the Gold Medal.*

273. To the person who shall import the next greatest quantity, not less than fifty tons;—*the Silver Medal.*

Certificates, satisfactory to the Society, to be produced by the master of the vessel on or before the last Tuesday in April, 1824, to testify that such hemp was grown

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and prepared in Canada, Nova Scotia, or New Brunswick.

*Substitute for Hemp.*

274. To the person who, in the years 1823, or 1824, shall raise at the Cape of Good Hope, in New South Wales, or in any of the British colonies, and import, a substitute for Hemp, not less than two tons, equally cheap, durable, and applicable to all the purposes for which hemp is now used;—*the Gold Medal, or Fifty Guineas.*

A quantity of the substitute, not less than 20lbs., together with the proper certificates from the governor, commander-in-chief, or secretary of the colony in which the same has been raised, to be produced to the Society on or before the last Tuesday in February, 1824.

The Society particularly direct the attention of the Public to the *Phormium tenax* or New Zealand Flax.

*N. B.* The premiums from No. 269 to 274, are all extended one year farther, on similar conditions.

*Silk.*

275. To the person who in the years 1823, 4 or 5, shall raise in any British Colony and import, the greatest quantity of silk proper for manufactures, not less than one hundred pounds weight, from silk worms bred there;—*the Gold Medal, or Fifty Guineas.*

Specimens of the Silk, not less than one pound, with an account of the method in which the Silk-worms were managed; the kind of the mulberry-trees from whence they were furnished with food, and particulars respecting the culture of the mulberry trees for that purpose, to be produced to the Society on or before the first Tuesday in March, 1824, 5, & 6.

276. For the next greatest quantity, not less than fifty pounds, on similar conditions;—*the Silver Medal, or Twenty Guineas.*

Satisfactory certificates from the governor commander-in-chief or Secretary of the Colony where the said Silk was produced, and of the several particulars above-mentioned, to be delivered to the Society along with the samples required.

The same premiums are specially offered for the Colonies of

277—278.—The Cape of Good Hope.

279—280.—The Mauritius.

281—282.—New South Wales.

*Cocoa-Nut Oil.*

283. To the person who shall, in the year 1824, import the largest quantity of Cocoa-nut oil, not less than fifty tons, and of the best quality;—*the Gold Medal, or Thirty Guineas.*

Proper certificates, with the bills of lading, and samples of the oil, to be produced to the Society on or before the last Tuesday in February, 1825.

This premium is proposed, particularly with a view to encourage the use of Cocoa-nut oil in the making of gas for the purpose of illumination, such gas having been found much superior to the gases commonly in use.

*Olive Oil.*

284. To the person who shall, in the years 1825, 6 and 7, manufacture and import the finest specimen of oil, not less than ten gallons, the produce of Olives grown in any British colony, in Africa or New South Wales;—*the Gold Medal.*

285. For the next greatest quantity, not less than six gallons;—*the Silver Medal.*

Specimens of the oil, not less than two quarts, together with satisfactory certificates, to be produced to the Society on or before the last Tuesday in February, 1826, 7 or 8.

*Wine from the Cape of Good Hope.*

286. To the person who shall import, in the years 1824 or 1825, the finest Wine, not less than twenty gallons, made from the produce of Vineyards at the Cape of Good Hope, or the parts adjacent;—*the Gold Medal.*

The above premium is not offered for the sweet or Constantia wine, the quality and value of which are sufficiently known, but to encourage the improvement of the vineyards more recently established.

Samples of the wine in bottles, bills of lading, and certificates of the governor or secretary of the colony, that the wine was made in the colony, to be produced to the Society on or before the first of March, 1824 or 1825.

*Wine from New South Wales.*

287. To the person who shall import in the years 1825 or 1826, the finest Wine, not less than twenty gallons, of good marketable quality, made from the

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produce of Vineyards in New South Wales;—*the Gold Medal.*

Samples of the wine in bottles, bills of lading, and certificates of the governor or secretary of the colony, that the wine was made in the colony, to be produced to the Society on or before the first of March 1825 or 1826.

*Wool from New South Wales.*

288. To the person who, previous to February 1824, shall import into Great Britain or Ireland, the greatest quantity, not less than two tons, of fine wool, the produce of New South Wales;—*the Gold Medal.*

Proper certificates, with the bills of lading, and samples of the wool, to be produced to the Society on or before the last Tuesday in February, 1824.

289. For the next greatest quantity, not less than one ton, on similar conditions;—*the Silver Medal.*

*Fine Wool from New South Wales.*

290. To the person who shall produce to the Society the finest sample of wool, the produce of New South Wales, equal to the best Saxon;—*the Gold Medal.*

Not less than 14lbs. of the wool to be produced to the Society on or before the last Tuesday in February, 1824, together with certificates, that at least 5 cwt. equal to the sample has been imported by the claimant.

*Cachemire Wool.*

291. To the person who shall import the greatest quantity of real Cachemire wool, not less than 1cwt. freed from the hair, and in a state fit for spinning;—*the Gold Medal.*

Samples of the Wool, not less than 5lbs. weight, with bills of lading and other necessary documents, to be produced to the Society on or before the last Tuesday in March, 1824.

This premium is continued two years longer on similar conditions.

*Importing the Cachemire Shawl Goat.*

292. To the person who shall have imported into the United Kingdom, subsequent to the first of January, 1824, the greatest number, not fewer than three

females and two males, of the real Cachemire Shawl Goat;—*the Gold Medal.*

Certificates that the goats are of the real Cachemire breed, and that they are in health at the time of making the communication, to be produced to the Society on or before the first Tuesday in March, 1824.

This premium is offered also for the years 1825 and 1826.

*China Paper for Copper-Plate Printing.*

293. To the person who shall communicate to the Society the best account of the process employed in China for the manufacture of paper used in England for Copper-Plate Printing, and known by the name of India Paper, together with an account of the materials from which such paper is made;—*the Gold Medal, or Fifty Guineas.*

Specimens of the paper, not less than one ream, with samples of the materials in their raw or unmanufactured state, and satisfactory certificates, to be produced to the Society on or before the first Tuesday in March, 1824, or 1825.

*Annatto.*

294. To the person who, in the year 1823, shall import into the port of London, from any part of the British settlements in the East Indies, the greatest quantity of Annatto, equal to that imported from Spanish America, not less than one hundred weight;—*the Gold Medal.*

A quantity of the annatto, not less than ten pounds weight, to be produced to the Society, with proper certificates, signed by the governor or secretary of the respective settlement, that the annatto is the produce of such settlement, on or before the last Tuesday in February, 1824.

*True Cochineal.*

295. To the person, who in the year 1823, shall import into the port of London, from any part of the British settlements in the East or West Indies or any other British plantation, the greatest quantity of true Cochineal, equal to that imported from Spanish America, not less than one hundred weight;—*the Gold Medal.*

A quantity of the Cochineal, not less

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than three pounds weight, with proper certificates, signed by the governor or secretary of the respective settlement, that the Cochineal is the produce of such settlement, to be produced to the Society on or before the first Tuesday in February, 1824.

*N. B.* The premiums from No. 292 to 295 inclusive, are all extended two years farther on similar conditions.

### *Short-Reeled Brutia Silk.*

296. To the person who previous to the 1st of March, 1824, shall have imported into Great Britain the greatest quantity of Brutia or Levant silk, not less than five bales (heretofore long-reeled), of a reel not more than 75 inches in circumference, so as to be wound by the engines in ordinary use;—*the Gold Isis Medal or Thirty Guineas.*

Proper certificates with bills of lading, and samples of the silk to be produced to the Society on or before the first Tuesday in April, 1824.

### *Cultivation of Tea.*

297. To the person who shall grow and prepare the greatest quantity of Tea, of good quality, not being less than 20lbs weight, in the the Island of Jamaica or in any other British West Indian Colony, and shall import the same into Great Britain;—*the Gold Medal, or Fifty Guineas.*

Satisfactory certificates from the governor or secretary of the colony, that such Tea was grown and prepared in the colony; together with an account of the number of Tea-trees, their age, mode of culture, of gathering, drying and preparing the leaves, and samples of the tea; to be produced to the Society on or before the first Tuesday in February 1827.

The same premium is offered for the colonies of

298. The Cape of Good Hope.

299. The Mauritius.

300. New South Wales.

### *China Tea.*

301. To the person who shall communicate to the Society, from information obtained in China, the best and most authentic account of the culture of the plant or plants, the leaves of which furnish the different kinds of tea; together with the method of gathering,

drying, and otherwise preparing the leaves;—*the Gold Medal.*

The communication, with the necessary certificates, to be sent in to the Society on or before the last Tuesday in March, 1824.

This premium is extended to the years, 1825 and 1826.

### *Dried Fruits.*

302. To the person who shall prepare and import into Great Britain the greatest quantity, not less than 100lbs of dried fruits, similar to those now imported from the Mediterranean, of good quality and the growth of the colony of New South Wales;—*the Gold Ceres Medal.*

Satisfactory certificates from the governor or secretary of the colony, that the fruits were grown and prepared in the colony, with samples of the fruits, to be presented to the Society on or before the first Tuesday in February, 1825.

This Premium is also extended to 1826.

The same premium on similar conditions is offered for the colonies of

303. The Cape of Good Hope.

304. The Mauritius.

### *Extract of Mimosa Bark.*

305. To the person who in the year 1824, shall import into Great Britain the greatest quantity (not less than one ton), of extract of Mimosa Bark, prepared in the Colony of New South Wales, at a price not greater than that of the extract of foreign Oak-bark, and equally applicable as that to the purpose of Tanning;—*the Gold Isis Medal, or Thirty Guineas.*

Satisfactory certificates from the governor or secretary of the colony, that the extract was prepared from the bark of trees growing in the colony, together with a full account of the process of preparing it, and samples of the extract, to be produced to the Society on or before the last Tuesday in January, 1825.

This premium is extended to the year 1826.

### *Diminution of Human Labour in the Cultivation of Sugar, &c.*

306. To the person who previous to the first of January, 1825, shall present to the Society a satisfactory account, founded on experience, of the most advantageous mode of diminishing the labour of persons employed in the Cul-

tivation of Sugar, Cotton, and Coffee in the West Indian Colonies, by the substitution of agricultural machinery or by the use of Cattle;—*the Gold Medal, or Fifty Guineas.*

*Extirpating the Stumps and Roots of Trees.*

307. To the person who shall invent and discover to the Society, the best method, verified by actual experience of

raising out of the earth and removing the stumps and roots of trees which have been left after felling the timber, so as to clear the land for the purposes of cultivation;—*the Gold Medal, or Fifty Guineas.*

Certificates that the method has succeeded with at least fifty trees of large girth and a full description of the means employed, to be delivered to the Society on or before the last Tuesday in February, 1824.

### BRITISH MARBLES.

*THE SOCIETY considering that it would be beneficial to the Commerce of the United Kingdom to bring the British Marbles into general use, and that the most effectual method of accomplishing their object would be, for the present, to make them more generally known in the Capital, have come to the following Resolution:—*

That specimens of British Marbles be exposed in the Society's Rooms, in the Adelphi, for the inspection of the public under the following regulations:

1st, That all the specimens be exact to a given size, viz. eight inches high, six inches broad, one thick, and polished on one face.

2nd, That a book be kept, containing the number of each specimen, and describing the situation of the quarry, the name and situation of the parish, the distance of the quarry from a beaten road, and the distance of that road from

water-carriage, with the name of the donor and proprietor. Any remarks on the qualities of the Marbles, or on the lime produced from them, will be gratefully received and preserved by the Society, as materials for future inquiries.

As the exertions of the Society can be generally beneficial only inasmuch as their views are seconded by the public, the Society request, that all proprietors of Marble Quarries will favour them with a specimen of the Marble, worked to the exact size above-mentioned, with the description of the quarry as above, that the same may be entered in the book to be preserved for the use of the public. By such arrangements, it is expected, that the interest of the proprietors of the quarries will be promoted, and the use of British Marble much extended. A variety are already exhibited in the Society's Room's.

REWARDS BESTOWED BY THE SOCIETY DURING THEIR SESSION WHICH COMMENCED ON THE FIRST WEDNESDAY IN NOVEMBER, 1822, AND CLOSED ON THE SECOND WEDNESDAY IN JUNE, 1823.

### IN AGRICULTURE AND RURAL ECONOMY.

1. To Lieutenant-colonel Wildman, Newstead Abbey, for planting 500 acres with Forest Trees, *the Gold Ceres Medal.*
2. To Messrs. Cowley and Staines, Winslow, Bucks, for preparing 143lbs. of Opium from Poppies grown in England, *Thirty Guineas.*
3. To J. W. Jeston, Esq. Henley on Thames, for his improved mode of collecting the juice of the Opium Poppy, *the large Silver Medal.*
4. To W. Pyle Taunton, Esq. Cheam, Surry, for early Horse-beans, *the large Silver Medal.*

### IN CHEMISTRY.

1. To Mr. James Marsh, Rush Grove Place, Woolwich, for a portable electro-magnetic apparatus, *the large Silver Medal and Thirty Guineas.*
2. To Mr. H. Marshall, Newcastle-on-Tyne, for improved melting-pots for brass-founders and steel-makers, *the large Silver Medal.*

3. To Mr. J. T. Cooper, 9, Paradise Street, Lambeth, for his improvements in the apparatus for analysing vegetable and animal substances, *the large Silver Medal.*
4. To the same, for a hydrometer for saline solutions, *the Gold Vulcan Medal.*
5. To G. Gurney, Esq. 7, Argyll Street, for an oxy-hydrogen' blowpipe, *the Gold Vulcan Medal.*

## IN POLITE ARTS.

### 1.—ORIGINAL OIL PAINTINGS.

1. To Mr. G. Hilditch, Jun. 13, Ludgate Hill, for a landscape, *the Gold Isis Medal.*
2. To Mr. R. H. Hilditch, 13, Ludgate Hill, for a landscape, *the large Silver Medal.*
3. To Miss Eliza Anne Drummond, 5, Rathbone Place, for an historical composition, *the Silver Isis Medal.*
4. To Mr. Philip Simpson, 10, Carlisle Street, Soho, for a portrait, *the Gold Isis Medal.*
5. To Mr. J. G. Middleton, 24, Manor Place, Walworth, for a portrait, *the large Silver Medal.*
6. To Mr. Jos. Miles Gilbert, Bristol, for a marine painting, *the Silver Isis Medal.*
7. To Mr. H. Pearsall, Bath, for a landscape, *the Silver Isis Medal.*
8. To Mr. F. W. Watts, Hampstead, for a landscape, *the large Silver Medal.*
9. To Mr. J. Porter, 25, Welbeck Street, for an historical composition, *the Silver Isis Medal.*
10. To Miss Rose Emma Drummond, 5, Rathbone Place, for an historical composition, *the large Silver Medal.*

### 2.—COPIES IN OIL.

11. To Miss Jane Drummond, 5, Rathbone Place, for a portrait, *the Silver Isis Medal.*
12. To Mr. H. Johnson, 7, Rodney Buildings, Kent Road, for a portrait, *the large Silver Medal.*
13. To Mr. F. Rochard, 131, New Bond Street, for an historical subject, *the Silver Isis Medal.*
14. To Mr. S. Drummond, 14, Church Street, Soho, for an historical subject, *the large Silver Medal.*

### 3.—ORIGINAL PAINTINGS IN WATER COLOURS.

15. To Miss Robson, Doncaster, for a composition of flowers, *the Silver Isis Medal.*
16. To Miss Mary Willis, 49, Upper Norton Street, for a composition of flowers, *the large Silver Medal.*
17. To Mr. T. Richmond, 42, Halfmoon Street, for a portrait, *the Silver Isis Medal.*
18. To Miss M. Ross, 52, Upper Charlotte Street, Fitzroy Square, for a portrait, *the large Silver Medal.*
19. To Miss Frances Eddy, Plymouth, for a composition in flowers, *the Silver Isis Medal.*

### 4.—COPIES IN WATER COLOURS.

20. To Mr. James Hamilton Lawson, 30, Berners Street, for a portrait, *the Silver Palette.*
21. To Mr. T. Baynton, Bath, for a landscape, *the Silver Isis Medal.*
22. To Miss Matilda Smith, 18, Upper King Street, Bloomsbury, for a portrait, *the large Silver Medal.*
23. To Miss Mary Jane Hull, Beverly, for a portrait, *the Silver Isis Medal.*
24. To Miss Mary Willis, 49, Upper Norton Street, for a flower-piece, *the Silver Isis Medal.*
25. To Mr. Frederick Rochard, 131, New Bond Street, for a portrait, *the Silver Isis Medal.*
26. To Mr. G. R. Ward, 6, Newman Street, for a portrait, *the large Silver Medal.*

### 5.—ORIGINAL DRAWINGS IN CHALK.

27. To Mr. J. A. Cahusac, Mount Street, Whitechapel, for a drawing of the Musk Ox, *the Silver Palette.*

### 6.—COPIES IN INK, CHALK, PENCIL, &c.

28. To Mr. C. Horatio Bunning, 11, Bernard Street, Russell Square, for an historical subject, *the Silver Palette.*



- 29. To Mr. T. Barrett, 78, Mark-lane, for an historical subject, *the Silver Palette.*
- 30. To Miss Ann Hopkins, 83, Berwick Street, for a landscape, *the Silver Palette.*
- 31. To Miss Rowe, Tor-Point House, Cornwall, for an historical subject, *the Silver Isis Medal.*
- 32. To Miss Eliz. Clark, 6, Cadogan Terrace, for an historical subject, *the large Silver Medal.*
- 33. To Mr. W. Baker, 59, Stafford Place, Pimlico, for an historical subject, *the Silver Isis Medal.*
- 34. To Mr. Ebenezer Stalker, Jun. 5, Southampton Crescent, Euston-square, for a landscape, *the Silver Isis Medal.*
- 35. To Miss Louisa Mary Vully, 59, Stafford Place, Pimlico, for a head, *the Silver Isis Medal.*

7.—DRAWINGS IN OUTLINE, FROM STATUES.

- 36. To Mr. I. Solomon, 86, Piccadilly, for the Laocoon, *the large Silver Medal.*

8.—FINISHED DRAWINGS FROM STATUES AND BUSTS.

- 37. To Miss Sarah Cox, 22, Nottingham Street, for a drawing from a bust, *the Silver Isis Medal.*
- 38. To Miss Jane Stalker, 5, Southampton Crescent, Euston-square, for a drawing from a bust, *the Silver Palette.*
- 39. To Mr. Evan Williams, 6, Charlotte Street, Bloomsbury, for a drawing from a bust, *the Silver Isis Medal.*
- 40. To Mr. Phil. Corbet, 482, Strand, for a drawing from a statue, *the large Silver Medal.*
- 41. To Mr. P. H. Desvignes, 16, Hunter Street, Brunswick-square, for a drawing from a bust, *the Silver Palette.*
- 42. Mr. J. Padgett, 96, Sloane Street, for a drawing from a bust, *the large Silver Medal.*
- 43. To Mr. Ebenezer Stalker, 5, Southampton Crescent, Euston-square, for a drawing from a bust, *the Silver Palette.*
- 44. To Mr. T. Fairland, 4, Princes Street, Commercial Road, Lambeth, for a drawing from a figure, *the Large Silver Medal.*
- 45. To Mr. E. Williams, Ambroseden, Bicester, for a drawing from an entire figure, *the Silver Isis Medal.*
- 46. To Mr. S. W. Cecil, 59, Stafford Place, Pimlico, for a drawing of an anatomical figure, *the large Silver Medal.*

9.—ORIGINAL MODELS IN PLASTER.

- 47. To Mr. Ed. Edwards, 2, Newcastle Street, Clerkenwell, for a groupe, Ulysses and Calypso, *the Gold Isis Medal.*
- 48. To Mr. Ed. G. Physick, 20, Spring Street, Portman-square, for two single figures —Telemachus and Narcissus, *the large Silver Medal.*

10.—MODELS IN PLASTER, COPIES.

- 49. To Mr. Mich. Teasdale, 1, Bond Street, Vauxhall, for a head, *the Silver Palette.*
- 50. To Mr. Jos. Deare, 12, Great St. Helen's, for a model of a Bacchus, *the Silver Isis Medal.*
- 51. To Mr. Ed. Edwards, 2, Newcastle Street, Clerkenwell, for a model in the round from a group, *the large Silver Medal.*

11.—ARCHITECTURE.

- 52. To Mr. P. H. Desvignes, 16, Hunter Street, Brunswick square, for a drawing of a Corinthian capital, *the Silver Isis Medal.*
- 53. To Mr. C. Purser, 10, Laurence Pountney Lane, for an original design for a British Museum, *the Gold Medallion.*
- 54. To Mr. Henry Bassett, 15, Norfolk Street, Strand, for an original design for a British Museum, *the Gold Isis Medal.*

12.—CARVING IN WOOD.

- 55. To Mr. Nicholl, 6, Grafton Street, East, for a carving in wood of a figure, *the Gold Isis Medal.*
- 56. To Mr. Henry Bailes, 434, Oxford Street, for an original carving of flowers, *the Silver Isis Medal.*
- 57. To Mr. James Harris, Plymouth, for a syringe to preserve oil paint in, *the large Silver Medal and Ten Guineas,*

58. To C. Warren, Esq. for his improvements in the art of engraving on steel-plate, *the large Gold Medal.*
59. To W. Brockedon, Esq. 11, Caroline Street, Bedford Square, for a rest for painters, *the Silver Isis Medal.*
60. To Mr. W. Deeble, 1, Seymour Place, Islington, for his method of taking casts of leaves and foliage, *the Silver Isis Medal.*
61. To Mr. G. Mills, 17, Ossulston Street, Somers Town, for the new die of the Vulcan Medal presented by him, *the Gold Vulcan Medal.*

#### IN MANUFACTURES.

1. To Mr. W. V. Shenton, Winchester, for an improved engine for tramming silk, *the Silver Vulcan Medal.*
2. To Mr. W. Cobbett, Kensington, for plat from English Grass, *the large Silver Medal.*

#### IN MECHANICS.

1. To Mr. C. A. Siebe, for a tap for hollow screws, *the Silver Vulcan Medal, and Five Guineas.*
2. To Mr. E. Pechey, Bury St. Edmund's, for a mangle, *the Silver Vulcan Medal and Ten Guineas.*
3. To Ed. Speer, Esq. 7, New Inn, for his centrifugal check hooks, *the Silver Vulcan Medal.*
4. To R. W. Wilkinson, Esq. Captain R. M. Chatham, for a marine arm-chest, *the large Silver Medal.*
5. To J. Amesbury, Esq. 82, Great Surrey Street, for an apparatus for fractures of the lower limbs, *the Gold Vulcan Medal.*
6. To Mr. W. Raynes, 10, Regent Street, Westminster, for a cap for fractured patella, *the Silver Vulcan Medal, and Ten Guineas.*
7. To Mr. James Jones, 150, High Holborn, for a kiln for drying grain, *the large Gold Medal.*
8. To Mr. Jas. Dennet, 7, Regent Street, Mile End, for an apparatus for baling Ships, *the large Silver Medal.*
9. To C. C. Dansey, Esq. Captain Royal Artillery, Havering, for a kite for effecting a communication between a stranded ship and the shore, *the Gold Vulcan Medal.*
10. To Mr. J. Evans, 12, Ellen Terrace, St. George's in the East, for his method of equalizing the strain on tackles, *the large Silver Medal.*
11. To Mr. J. Elliott, Sheffield, for his apparatus for the use of dry grinders, *the Gold Vulcan Medal.*

#### IN COLONIES AND TRADE.

1. To Mr. J. F. Denovan, Aberdour, Fifeshire, for exporting British cured herrings *Fifty Guineas.*
2. To Mr. Gregory Blaxland, for wine, the produce of his vineyard in New South Wales, *the large Silver Medal.*

The Society have also directed, that the following performances in the class of Polite Arts, be exhibited on account of their merit, with those to which premiums have been awarded.

A finished anatomical drawing, by Mr. G. Simpson.

An original Painting of flowers, by Miss Bowley.

A copy of a miniature, by Mr. Edwin Dalton.

A finished drawing of the Gladiator, by Mr. J. Padgett.

A drawing of the Altar Screen of St. Saviour's Church, Southwark, by Mr. G. Gwilt, Jun.

A copy, in oil, from the bust of Homer, by Mr. Philip Corbett.

A copy of a miniature, by Miss Mary Anne Hale.

The Society have also voted their special Thanks

To Captain Hawkins, for his plantations of Forest Trees, near Kingsbridge, Devon.

To Mr. T. Jones Ludgate Hill, for his guard to the wheels of waggons.

☞ Since the last DISTRIBUTION, One Hundred and Twenty-five new Members have been elected.

By Order, ARTHUR AIKIN, Sec.